



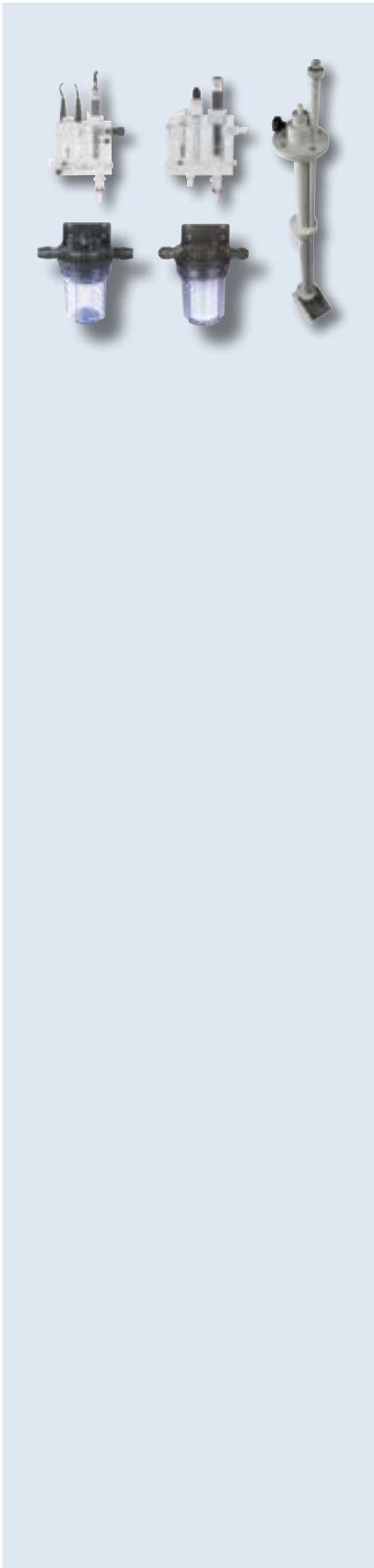
1. Sensors

Table of contents

2. Sensors	51
2.1. Electrodes	55
2.1.1. DOSA<i>Sens</i> pH electrode HGR	57
2.1.2. DOSA<i>Sens</i> pH electrode PHGB2F	58
2.1.3. DOSA<i>Sens</i> pH electrode PH-2	59
2.1.4. DOSA<i>Sens</i> pH electrode PHRT-2	60
2.1.5. DOSA<i>Sens</i> Redox electrode PFGR-2	61
2.1.6. DOSA<i>Sens</i> Redox electrode MVRHT-2	62
2.1.7. DOSA<i>Sens</i> Redox electrode RHGB2F	63
2.1.8. DOSA<i>Sens</i> Redox electrode MV-2	64
2.1.9. DOSA<i>Sens</i> Electrode connection cable	65
2.1.10. DOSA<i>Sens</i> Buffer solutions	66
2.2. Conductivity / Turbidity / Oxygen / Temperature	67
2.2.1. DOSA<i>Sens</i> Conductivity meter I-mA	69
2.2.2. DOSA<i>Sens</i> Conductivity measuring cells E/E/HT	70
2.2.3. DOSA<i>Sens</i> Conductivity measuring cells E/E	71
2.2.4. DOSA<i>Sens</i> Conductivity measuring cells E/PT	72
2.2.5. DOSA<i>Sens</i> Conductivity measuring cells E/P	73
2.2.6. DOSA<i>Sens</i> Conductivity measuring cells E/P immersion model	74
2.2.7. DOSA<i>Sens</i> Conductivity measuring cells G/P	75
2.2.8. DOSA<i>Sens</i> Conductivity measuring cells G/P immersion model	76
2.2.9. DOSA<i>Sens</i> Conductivity Sensor C8325.5	77
2.2.10. DOSA<i>Sens</i> Turbidity cell TU 8325	78
2.2.11. DOSA<i>Sens</i> Oxygen measuring cells OD8325, OD8525	79
2.2.12. DOSA<i>Sens</i> Temperature sensor CG 21 Pt 100	81
2.2.13. DOSA<i>Sens</i> Temperature sensor ETE	82
2.3. Amperometric Sensors	83
2.3.1. DOSA<i>Sens</i> Chlorine sensor CL2.2	85
2.3.2. DOSA<i>Sens</i> Chlorine sensor CL4.2	87
2.3.3. DOSA<i>Sens</i> Chlorine sensor CC1	91
2.3.4. DOSA<i>Sens</i> Chlorine sensor CS4	93
2.3.5. DOSA<i>Sens</i> Chlorine sensor CS4-...-SW	95
2.3.6. DOSA<i>Sens</i> Chlorine sensor AS2, AS3	97
2.3.7. DOSA<i>Sens</i> Chlorine sensor CP4.0	101
2.3.8. DOSA<i>Sens</i> Chlorine sensor CP4.0-...-SW	103
2.3.9. DOSA<i>Sens</i> Chlorine sensor CH10	105
2.3.10. DOSA<i>Sens</i> Chlorine sensor ILS2	107
2.3.11. DOSA<i>Sens</i> Chlorine sensor CN1.1	109
2.3.12. DOSA<i>Sens</i> Chlorine dioxide sensor CD4.2	111
2.3.13. DOSA<i>Sens</i> Chlorine dioxide sensor CD10.1	113
2.3.14. DOSA<i>Sens</i> Chlorine dioxide sensor AS2, AS3	115
2.3.15. DOSA<i>Sens</i> Chlorine dioxide sensor ILS2	117
2.3.16. DOSA<i>Sens</i> Open amperometric sensor KC	119
2.3.17. DOSA<i>Sens</i> Chlorite sensor MST1	121
2.3.18. DOSA<i>Sens</i> Bromine sensor BR1	123
2.3.19. DOSA<i>Sens</i> Ozone sensor OZ1.2	125
2.3.20. DOSA<i>Sens</i> Ozone sensor OZ10.1	127
2.3.21. DOSA<i>Sens</i> Hydrogen peroxide sensor WP7	129
2.3.22. DOSA<i>Sens</i> Hydrogen peroxide sensor WP10	131
2.3.23. DOSA<i>Sens</i> Peracetic acid sensor P9.2	133
2.3.24. DOSA<i>Sens</i> Peracetic acid sensor PES7	135
2.3.25. DOSA<i>Sens</i> Peracetic acid sensor P10	137
2.3.26. DOSA<i>Sens</i> Connection cable AK	139
2.3.27. DOSA<i>Sens</i> Replacement electrolytes E	140
2.3.28. DOSA<i>Sens</i> Replacement electrolytes E	141



Table of contents



2.3.29.	DOSA Sens Membrane caps M	143
2.3.30.	DOSA Sens Simulator pH, redox and chlorine	145
2.3.31.	DOSA Sens Simulator SIM11.1n	146
2.3.32.	DOSA Sens Simulator/Tester pH, redox, mV or mA signal	147
2.4.	Probe holder	149
2.4.1.	DOSA Sens Flow cell DF	151
2.4.2.	DOSA Sens Flow cell DAS	152
2.4.3.	DOSA Sens Flow cell ETA	153
2.4.4.	DOSA Sens Flow cell ILS	155
2.4.5.	DOSA Sens Flow cell PA	157
2.4.6.	DOSA Sens Flow cell DFA	158
2.5.	Filter technology	159
2.5.1.	DOSA Sens Filter VF/80 5"	161

Legal notice

DOSATRONIC GmbH

Zuppingerstraße 8
D-88213 Ravensburg
☎: +49 751 / 295 12- 0
✉: +49 751 / 295 12- 190
info@dosatronic.de
www.dosatronic.de
Registered office: Ravensburg HRB 552723
USt-IdNr.: DE812973283

Valid from: **May 2022**

Rights

DOSATRONIC GmbH All rights reserved.

All trademarks referred to or depicted in this document are the property of their respective owners.

Concept, design, implementation, print processing:
DOSATRONIC GmbH, technical editing

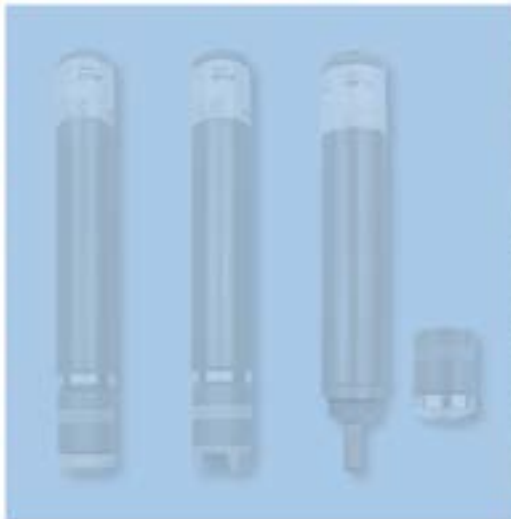
Photos: Adobe Stock; **DOSATRONIC GmbH**, technical editing.

Translation from German: **DOSATRONIC GmbH** Assistant to the management,
SK Technical Translations - Sonja Schuberth-Kreutzer

No information contained in these product catalog may be reproduced or transmitted without the prior written permission of **DOSATRONIC GmbH**.

Note

We are committed to continuously improving our products. The information provided in these Operating Instructions may occasionally be at variance with the product itself if technological are made or in order to comply with safety related requirements.



2. Sensors

1.1. Electrodes

1.1.1.

DOSA*Sens* pH electrode HGR

Combination glass electrodes with integrated reference system.



Product description:

- Closed electrode shaft
- No topping up of KCl electrolyte needed
- Protected reference system of the integrated reference electrode with long diffusion path of up to 120 mm
- Particularly long service life
- Quick response, even with fluctuating temperature

2

Areas of application:

- Media with a high load of solids in municipal, industrial wastewater and process applications.

Scope of supply:

- **DOSA*Sens* HGR**, glass electrode with annular gap

Ordering data:

Type:	pH range: pH	Temperature range: °C	Pressure range bar	Conductivity: µS/cm	Item number:
HGR (annular gap)	0–14	0–80	0–6	> 500	31235030

Additional technical data:

Type:	Diaphragm:	Shaft length: mm	Cable connection:	Connection:
HGR (annular gap)	Annular gap	120	SN 6	PG 13.5

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
05.07.2021

1.1.2. DOSASens pH electrode PHGB2F

Especially stable reference system with gel electrolyte and additional salt reserve for long service life.

Product description:

- High-grade pH combination electrode with ceramic diaphragm
- No ion loss from the electrolyte due to small contact surface
- Especially stable reference system with gel electrolyte and additional KCl reserve

Areas of application:

- Particularly suitable for swimming pool technology and for general water treatment applications.

Scope of supply:

- DOSASens PHGB2, glass electrode with PG 13.5 thread, 0.8 m fixed cable and BNC plug with red cap, wetting cup with holder



Ordering data:

Type:	pH range: pH	Temperature range: °C	Pressure range: bar	Item number:
PHGB2F	0–14	0– 50	0– 6	31220000

Additional technical data:

Type:	Diaphragm:	Shaft length: mm	Cable connection:	Connection: thread
PHGB2F	Ceramic	100	BNC plug	PG 13.5

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
04.07.2016

1.1.3.

DOSASens pH electrode PH-2

Especially stable reference system with gel electrolyte and additional KCl reserve.



Product description:

- Standard electrode with ceramic diaphragm
- No ion loss from the electrolyte due to small contact surface
- Model with glass shaft (GK): for process and wastewater applications
- Model with polysulfone shaft (PK): for swimming pool applications with long service life

2

Areas of application:

- Glass shaft: process and wastewater applications, water treatment.
- Polysulfone shaft: particularly suitable for swimming pool applications suitable for sea water.

Scope of supply:

- DOSASens PHGK-2 glass electrode
- DOSASens PHPK-2 electrode with polysulfone shaft

Ordering data:

Type:	pH range: pH	Temperature range: °C	Pressure range: bar	Item number:
PHGK-2 (glass shaft)	0–14	-5 to +80	0–6	3189001
PHPK-2 (polysulfone shaft)				3189003

Additional technical data:

Type:	Shaft length: mm	Cable connection:	Connection: thread
PHGB2F (glass shaft)	120	SN6	PG 13.5
PHPK-2 (polysulfone shaft)			

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
04.07.2016

1.1.4. DOSASens pH electrode PHRT-2

Rugged, almost maintenance-free and dirt-repellent PTFE ring diaphragm.

Product description:

- Long-term monitoring and limit control in processes with stable process conditions
- Available in three lengths

Areas of application:

- Process applications: Paper industry, power plants (e.g. flue gas scrubbing), waste incineration plants.
- Water treatment: drinking water, boiler feed water, cooling water, well water, pure water.

Scope of supply:

- DOSASens PHRT-2, glass electrode with ring diaphragm

Ordering data:

Type:	pH range: pH	Temperature range: °C	Pressure range bar	Item number:
PHRT-2	1–12	-15 to +80	0–6	3151122

Additional technical data:

Type:	Diaphragm:	Shaft length: mm	Cable connection:	Connection: thread
PHRT-2	Ring diaphragm	120	SN 6	PG 13.5

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
04.07.2016

1.1.5.

DOSASens Redox electrode PFGR-2

Glass electrode with annular gap Gel-filled redox electrode for use in municipal and industrial wastewater applications or the electroplating industry.



Product description:

- Closed electrode shaft
- No topping up of KCl electrolyte needed
- Protected reference system of the integrated reference electrode with long Diffusion path of 120 mm,
- resulting in significantly improved service life and very low electrode drift
- Exceptionally high repeatability of the measurement results

2

Areas of application:

- Wastewater applications
- Electroplating

Scope of supply:

- **DOSASens PFGR-2**, redox glass electrode with annular gap

Ordering data:

Type:	Conductivity: μS/cm	Measuring range: mV	Pressure range: bar	Temperature range: °C	Item number:
PFGR-2/120	> 500	-1500 to +1500	0–6	-5 to +60	3151065

Additional technical data:

Type:	Conduction system:	Measuring element:	Shaft length: mm	Cable connection:	Connection: thread
PFGR-2/120	Ag/AgCl	Platinum	120	SN 6	PG 13.5

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
14.11.2016

1.1.6.

DOSA*Sens* Redox electrode MVRTHT-2

Electrode with dirt-repellent PTFE diaphragm.



Product description:

- Low maintenance and robust due to a large, dirt-repellent ring diaphragm made of PTFE
- Measurements can even be carried out at very low conductivities due to the integrated KCl reserve
- Measuring element: Platinum ring

Areas of application:

- Long-term monitoring and limit control in processes with stable process conditions e.g. for water treatment (drinking water, boiler feed water, cooling water, well water, pure water, or municipal and industrial wastewater and process applications (paper industry, power plants.
- (e.g. flue gas scrubbing), waste incinerators, food industry
- (e.g. fermenters), breweries

Scope of supply:

- DOSA*Sens* MVRTHT-2, electrode with dirt-repellent PTFE diaphragm

Ordering data:

Type:	Conductivity: μS/cm	Measuring range: mV	Pressure range: bar	Temperature range: °C	Item number:
MVRTHT-2	> 500	-1500 to +1500	0–6	-15 to +110	3151125

Additional technical data:

Type:	Conduction system:	Measuring element:	Shaft length: mm	Cable connection:	Connection: thread
MVRTHT-2	Ag/AgCl	Platinum ring	120	SN 6	PG 13.5

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
14.11.2016

1.1.7.

DOSASens Redox electrode RHGB2F

Especially stable reference system with gel electrolyte and additional salt reserve for long service life.

Product description:

- High-grade redox combination electrode with ceramic diaphragm
- No ion loss from the electrolyte due to small contact surface
- Especially stable reference system with gel electrolyte and additional KCl reserve
- Platinum tip

Areas of application:

- Particularly suitable for swimming pool applications and for general water treatment applications.

Scope of supply:

- **DOSASens RHGB2F**, glass electrode with PG 13.5 thread, 0.8 m fixed cable and BNC plug with blue cap, wetting cup with holder

Ordering data:

Type:	Conductivity: μS/cm	Measuring range: mV	Pressure range: bar	Temperature range: °C	Item number:
RHGB2F	> 50	-2000 to + 2000	0–6	0–50	31220100

Additional technical data:

Type:	Conduction system:	Measuring element:	Shaft length: mm	Cable connection:	Connection: thread
RHGB2F	Ag/AgCl	Platinum tip	100	Fixed cable 0.8 m with BNC plug	PG 13.5

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
09.08.2016

1.1.8. DOSASens Redox electrode MV-2

Standard redox measurement electrodes with platinum tip.

Product description:

- Standard electrode with ceramic diaphragm
- No ion loss from the electrolyte due to small contact surface
- Especially stable reference system with gel electrolyte and additional KCl reserve

Areas of application:

- Glass shaft (GK): Process and wastewater industry, water treatment industry.
- Polysulfone shaft (PK): Particularly suitable for swimming pool technology, relatively high service life.
- Suitable for sea water.

Scope of supply:

- DOSASens MV-2, electrode with ceramic diaphragm

Ordering data:

Type:	Conductivity: μS/cm	Measuring range: mV	Pressure range: bar	Temperature range: °C	Item number:
MVGK-2	> 50	-1500 to + 1500	0–6	0 to +80	3189010
MVPK-2					3189015

Additional technical data:

Type:	Conduction system:	Measuring element:	Shaft length: mm	Cable connection:	Connection: thread
MVGK-2	Ag/AgCl	Platinum	120	SN 6	PG 13.5
MVPK-2					

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
22.11.2017

1.1.9.

DOSA*Sens* Electrode connection cable

Standard redox measurement electrodes with platinum tip.



Product description:

- Coaxial connection cable for pH and redox electrodes,
- Available in different lengths (0.5 m to 20 m)
- Cable diameter: 5 mm
- Cable connections: SN6/SN6, SN6/BNC, SN6/open (see image on the left)
- Tested by the manufacturer
- Protection: IP 65

Installation instructions:

- In order to avoid electric interference, use short electrode connection cables.
- Do not lay coaxial cables in parallel to power supply cables.
- Use pre-assembled coaxial cables where possible.

Scope of supply:

- **DOSA*Sens* Electrode connection cable**

Ordering data:

Type:	Length:	Item number:	Type:	Length:	Item number:	Type:	Length:	Item number:
SN6/SN6	0.3	3184040	SN6/BNC	0.3	3184080	SN6 / open	0.3	3184000
	0.5	3184041		0.5	3184081		0.5	3184001
	1.0	3184042		1.0	3184082		1.0	3184002
	2.0	3184043		2.0	3184083		2.0	3184003
	3.0	3184044		3.0	3184084		3.0	3184004
	5.0	3184045		5.0	3184085		5.0	3184005
	10.0	3184046		10.0	3184086		10.0	3184006
	15.0	3184047		15.0	3184087		15.0	3184007
	20.0	3184048		20.0	3184088		20.0	3184008
	25.0	3184049		25.0	3184089		25.0	3184009
30.0	3184050	30.0	3184090	30.0	3184010			
35.0	3184051	35.0	3184091	35.0	3184011			

Spare parts:

Type:	Item number:
SN6 plug	3151100
BNC plug	9013950
BNC protective cap	9013454
BNC T-piece	9013049
BNC terminal resistance	9013452

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
09.08.2016

1.1.10. DOSASens Buffer solutions

pH, conductivity and redox buffer solutions.



Product description:

- Buffer solutions of pH 4.0; pH 7; pH 9, and pH 10.0
- Accuracy of the buffer solutions: ± 0.02 pH
- Service life: depends on how often they are used and to what extent chemicals are carried into the water
- **Note:** alkaline buffer solutions* absorb CO_2 while the container is open, close the container immediately after usage (*less stable when stored)
- Different drum sizes available

Product description of redox buffer solutions:

- 220 mV and 468 mV buffer solutions available
- Accuracy of the buffer solutions: ± 5 mV
- Different drum sizes available

Scope of supply:

- **DOSASens pH or redox buffer solutions**
- **Note:** Use within 3 months after opening

Ordering data:

pH:	Drum size:	Item number:	Drum size:	Item number:
pH	ml		ml	
4	50	3163001	250	3163003
7		3163010		3163012
9		3163020		3163022
10		3163030		3163032

Redox:	Drum size:	Item number:	Drum size:	Item number:
mV	ml		ml	
220	50	3163115	250	3163100
468		3163114		3163119

Conductivity:	Drum size:	Item number:
μS	ml	
84	50	9013361
1.413		9013360
12.880		9013362

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
04.072016



2. Sensors

1.2. Conductivity / Turbidity / Oxygen / Temperature

1.2.1.

DOSA*Sens* Conductivity meter I-mA

Conductivity meter, inductive.



Product description:

- Pressure range: 0–8 bar/40 °C, 1 bar/70 °C
- Temperature range: -10 to 130 °C
- Integrated temperature sensor, (for automatic temperature compensation)
- Measuring range: 0.2–1,000 mS/cm
- With display
- 4–20 mA output for conductivity
- 4–20 mA output for temperature
- Power supply: 24 VDC (terminals inside the unit)
- Housing: PBT (polybutylene terephthalate)
- Shaft material: PEEK
- Process connection: PP union nut, 2 ¼", DN 40
- Protection category: IP 65

2

Areas of application:

- Water treatment:
 - Dilution control in cooling tower systems
 - Monitoring of ion exchange systems
 - Humidity and release agent monitoring
- Washing processes:
 - Car washes, laundries, pickling agent conditioning

Scope of supply:

- DOSA*Sens* I-mA, conductivity meter.

Specific advantages:

- This compact transducer is used for inductive conductivity measurement in liquids of medium to high conductivity. The instrument is particularly recommended for use in media in which heavy deposits from contaminants, oil and grease, or gypsum and lime precipitation are to be expected. The transducer is not sensitive to polarisation.

Ordering data:

Type: I-mA	Item number: 3051000
---------------	-------------------------

1.2.2.

DOSASens Conductivity measuring cells **E/E/HT**

2-electrode systems, conductive.



Product description:

- 2-electrode system
- also with integrated temperature sensor
 - for automatic temperature compensation

Areas of application:

- Service water treatment, ultrapure water, wastewater treatment
- Food, pharmaceuticals industry, sewage treatment plants, etc.

Scope of supply:

- **DOSASens E/E/HT**, Electrode with cable connection, incl. 4.0 m connection cable (other lengths available on request), without a plug

Ordering data:

Type:	Temperature sensor:	Measuring range:	Cell constant:	Item number:
E/E/HT/001	Pt100	0–20 µS	0.01	3313017
E/E/HT/01		0–200 µS	0.1	3313019
E/E/HT/1		0–20 mS	1	3313018

Additional technical data:

Type:	Pressure and temperature: bar/°C	Pressure range: bar	Connection: inches	Shaft material:	Electrode:
E/E/HT/001	15 bar / 200 °C	0–15	¾" male	Stainless steel 316	Stainless steel 316
E/E/HT/01					
E/E/HT/1					

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
08.01.2019

1.2.3.

DOSASens Conductivity measuring cells E/E

2-electrode systems, conductive.



Product description:

- 2-electrode system
- also with integrated temperature sensor
 - also with integrated temperature sensor

2

Areas of application:

- Service water treatment, ultrapure water, wastewater treatment
- Food, pharmaceuticals industry, sewage treatment plants, etc.

Scope of supply:

- **DOSASens E/E**, electrode with cable connection (standard electrical plug) incl. 4.0 m connection cable (other lengths available on request), without a plug

Ordering data:

Type:	Temperature sensor:	Measuring range: μS	Cell constant:	Item number:
E/E/20 μS/0.1/NTC	NTC 10 kΩ	0–20	0.01	3313037
E/E/200 μS/0.1/NTC		0–200	0.10	3313036
E/E/20 mS/1/NTC		0–20000	1.00	3313035
E/E/20 μS/0.1/Pt100	Pt100	0–20	0.01	3313042
E/E/200 μS/0.1/Pt100		0–200	0.10	3313041
E/E/20 mS/1/Pt100		0–20000	1.00	3313040

Additional technical data:

Type:	Pressure and temperature: bar / °C	Pressure range: bar	Connection: inches	Shaft material:	Electrode:
E/E/20 μS/0.1/NTC	15 bar/130 °C	0–15	¾" male	Stainless steel 316	ainless steel 316
E/E/200 μS/0.1/NTC					
E/E/20 mS/1/NTC					
E/E/20 μS/0.1/Pt100					
E/E/200 μS/0.1/Pt100					
E/E/20 mS/1/Pt100					

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
17.03.2017

1.2.4. DOSASens Conductivity measuring cells E/PT

2-electrode systems, conductive.

Product description:

- 2-electrode system
- also with integrated temperature sensor
– for automatic temperature compensation

Areas of application:

- Service water treatment, ultrapure water, wastewater treatment
- Food industry, pharmaceuticals industry, sewage treatment plants, etc.

Scope of supply:

- DOSASens E/PT, electrode with cable connection, incl. 4.0 m connection cable, without a plug

Ordering data:

Type:	Temperature sensor:	Measuring range: μS/cm	Cell constant:	Item number:
E/PT/200μS/0,1/-	No	0–200	0.1	33227000
E/PT/2000μS/0,2/-		0–2000	0.2	33227005
E/PT/20000μS/1,0/-		0–20000	1.0	33227010
E/PT/200μS/0,1/NTC	NTC 10 kΩ	0–200	0.1	33227050
E/PT/2000μS/0,2/NTC		0–2000	0.2	33227055
E/PT/20000μS/1,0/NTC		0–20000	1.0	33227060
E/PT/200μS/0,1/Pt100	Pt100	0–200	0.1	33227100
E/PT/2000μS/0,2/Pt100		0–2000	0.2	33227105
E/PT/20000μS/1,0/Pt100		0–20000	1.0	33227110

Additional technical data:

Type:	Pressure and temperature: bar / °C	Pressure range: bar	Connection: inches	Shaft material:	Electrode:
E/PT/200μS/0,1/-	7 bar/60 °C	0–10	½	PTFE	Stainless steel 316
E/PT/2000μS/0,2/-					
E/PT/20000μS/1,0/-					
E/PT/200μS/0,1/NTC					
E/PT/2000μS/0,2/NTC					
E/PT/20000μS/1,0/NTC					
E/PT/200μS/0,1/Pt100					
E/PT/2000μS/0,2/Pt100					
E/PT/20000μS/1,0/Pt100					

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
23.05.2017

1.2.5.

DOSASens Conductivity measuring cells **E/P**

2-electrode systems, conductive.



Product description:

- 2-electrode system
- also with integrated temperature sensor
 - for automatic temperature compensation

Areas of application:

- Service water treatment, ultrapure water, wastewater treatment
- Food, pharmaceuticals industry, sewage treatment plants, etc.

Scope of supply:

- **DOSASens E/P**, electrode with cable connection (standard electrical plug), incl. 4.0 m connection cable (other lengths available on request), without a plug

Ordering data:

Type:	Temperature sensor:	Measuring range: μS/cm	Cell constant:	Item number:
E/P/200μS/0.1	No	0–200	0.1	3313011
E/P/500μS/0.2		0–500	0.2	3313014
E/P/5mS/1		0–5000	1.0	3313010
E/P/200μS/0.1/NTC	NTC 10 kΩ	0–200	0.1	3313013
E/P/500μS/0.2/NTC		0–500	0.2	3313016
E/P/5mS/1/NTC		0–5000	1.0	3313012
E/P/200μS/0.1/Pt100	Pt100	0–200	0.1	3313006
E/P/500μS/0.2/Pt100		0–500	0.2	3313002
E/P/5mS/1/Pt100		0–5000	1.0	3313005

Additional technical data:

Type:	Pressure and temperature: bar / °C	Pressure range: bar	Connection: inches	Shaft material:	Electrode:
E/P/200μS/0.1	7 bar/60 °C 2 bar/100 °C	0–7	¾" male (½" available on request)	PVDF	Stainless steel 316
E/P/500μS/0.2					
E/P/5mS/1					
E/P/200μS/0.1/NTC					
E/P/500μS/0.2/NTC					
E/P/5mS/1/NTC					
E/P/200μS/0.1/Pt100					
E/P/500μS/0.2/Pt100					
E/P/5mS/1/Pt100					

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
25.01.2017

1.2.6. DOSASens Conductivity measuring cells E/P immersion model

2-electrode systems, conductive.

Product description:

- 2-electrode system
- also with integrated temperature sensor
 - for automatic temperature compensation

Areas of application:

- Service water treatment, ultrapure water, wastewater treatment, food, pharmaceuticals, industry, sewage treatment plants, etc.

Scope of supply:

- DOSASens E/P, electrode immersion model with cable connection, incl. 4.0 m connection cable, (other lengths available on request)



Ordering data:

Type:	Temperature sensor:	Measuring range: μS/cm	Cell constant:	Item number:
E/P/200μS/0.1/immersion	No	0–200	0.1	3313092
E/P/5mS/1/immersion		0–5000	1.0	3313090
E/P/200μS/0.1/NTC/immersion	NTC 10 kΩ	0–200	0.1	3313094
E/P/5mS/1/NTC/immersion		0–5000	1.0	3313096
E/P/200μS/0.1/Pt100/immersion	Pt100	0–200	0.1	3313098
E/P/5mS/1/Pt100/immersion		0–5000	1.0	3313097

Additional technical data:

Type:	Pressure and temperature: bar/°C	Pressure range: bar	Connection: inches	Shaft material:	Electrode:
E/P/200μS/0.1/immersion	7 bar/60 °C 2 bar/100 °C	0–7	¾" male (½" available on request)	PVDF	Stainless steel 316
E/P/5mS/1/immersion					
E/P/200μS/0.1/NTC/immersion					
E/P/5mS/1/NTC/immersion					
E/P/200μS/0.1/Pt100/immersion					
E/P/5mS/1/Pt100/immersion					

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
25.01.2017

1.2.7.

DOSASens Conductivity measuring cells G/P

2-electrode systems, conductive.

Product description:

- 2-electrode system
- also with integrated temperature sensor
 - for automatic temperature compensation

Areas of application:

- Service water treatment, ultrapure water, wastewater treatment, food, pharmaceuticals industry, sewage treatment plants, etc.

Scope of supply:

- **DOSASens G/P**, electrode with cable connection (standard electrical plug), incl. 4.0 m connection cable (other lengths available on request), without a plug

Ordering data:

Type:	Temperature sensor:	Measuring range: mS/cm	Cell constant:	Item number:
G/P/20ms/1/	No	0–20	1	3313009
G/P/200ms/10/		0–200	10	3313027
G/P/20ms/1/NTC	NTC 10 kΩ	0–20	1	3313003
G/P/200ms/10/NTC		0–200	10	3313028
G/P/20ms/1/Pt100	Pt100	0–20	1	3313001
G/P/200ms/10/Pt100		0–200	10	3313029

Additional technical data:

Type:	Pressure and temperature: bar/ °C	Pressure range: bar	Connection: inches	Shaft material:	Electrode:
G/P/20ms/1/	7 bar/60 °C 2 bar/100 °C	0–7	¾" male (½" available on request, only for cell constant 1)	PVDF	Graphite
G/P/200ms/10/					
G/P/20ms/1/NTC					
G/P/200ms/10/NTC					
G/P/20ms/1/Pt100					
G/P/200ms/10/Pt100					

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
25.01.2017

1.2.8. DOSASens Conductivity measuring cells G/P immersion model

2-electrode systems, conductive.

Product description:

- 2-electrode system
- also with integrated temperature sensor
 - for automatic temperature compensation

Areas of application:

- Service water treatment, ultrapure water, wastewater treatment, food, pharmaceuticals, industry, sewage treatment plants, etc.

Scope of supply:

- **DOSASens G/P**, electrode immersion model with cable connection, incl. 4.0 m connection cable (other lengths available on request), without a plug

Ordering data:

Type:	Temperature sensor:	Measuring range: mS/cm	Cell constant:	Item number:
G/P/20mS/1/immersion	No	0–20	1	3313080
G/P/200mS/10/immersion		0–200	10	3313085
G/P/20mS/1/NTC/immersion	NTC 10 kΩ	0–20	1	3313081
G/P/200mS/10/NTC/immersion		0–200	10	3313086
G/P/20mS/1/Pt100/immersion	Pt100	0–20	1	3313082
G/P/200mS/10/Pt100/immersion		0–200	10	3313087

Additional technical data:

Type:	Pressure and temperature: bar/°C	Pressure range: bar	Connection: inches	Shaft material:	Electrode:
G/P/20mS/1/immersion	7 bar/60 °C 2 bar/100 °C	0–7 bar	¾" male (½" available on request, only for cell constant 1)	PVDF	Graphite
G/P/200mS/10/immersion					
G/P/20mS/1/NTC/immersion					
G/P/200mS/10/NTC/immersion					
G/P/20mS/1/Pt100/immersion					
G/P/200mS/10/Pt100/immersion					

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
17.02.2021

1.2.9.

DOSA*Sens* Conductivity Sensor C8325.5

These probes measure the electrical conductivity and TDS using the inductive method. Thanks to the analog and digital outputs, the probes can be connected to the most common PLC's or data acquisition boards.



Product description:

- Measure: electrical conductivity or TDS using the inductive method
- Ranges: The conductivity ranges are configurable from 4 mS to 2000 mS. The TDS scales are configurable from 10.00 ppt to 1000 ppt. It is also possible to associate a scalability factor from 10% to 100% to obtain intermediate full-scale values on the 4/20 mA current loop through digital commands
- Zero: ±10 % of the full scale
- Load: 600 Ohm max. a 24 VDC
- Temperature limit: -5 +60 °C
- Reference temperature: 20–25 °C
- Max. Pressure: 10 bar at 25 °C, 3 bar at 65 °C
- Operating relative humidity: 95 % without condensation
- Operating pressure: 10 bar at 25 °C, 3 bar at 65 °C
- Dimensions: L = 264 mm, D = 40 mm
- Process connection: DN 40
- Body: PVDF
- Weight: Body 267 g, cable 640 g
- Cable: 10 m (100 m max.)
- Protection: IP 68

2

Areas of application:

- Food and beverage, Paper and Pulp, Chemical Industry, Pharmaceutical Industry, Electroplating, Printing Industry, Textile Industry, Drinking water, Cooling Towers, Waste Water Treatment, Surface treatment.

Scope of supply:

- **DOSA*Sens* C8325.5**, Sensor incl. 10 mtr. connection cable, open end
- Specify the desired measuring range when ordering (e.g. 0–2.000 ms or 0–20.00 ppt ...). Only one parameter can be measured.

Ordering data:

Type:	Measuring range: mS	Total dissolved Solids measurement range: ppt	Output signal:	Power supply:	Item number:
C8325.5	0–2.000	0–2.000	4–20 mA isolated RS 485 - Modbus RTU	9–36 VDC	3210050
	0–4.000	0–10.00			
	0–20.00	0–20.00			
	0–40.00	0–100.0			
	0–200.0	0–200.0			
	0–400.0	0–1000			
	0–2000				

1.2.10.

DOSASens Turbidity cell TU 8325

Turbidity is measured by the nephelometric method (ISO 7027 - EN 27027). Infra-red light is used for turbidity measurement. The measurement of the sample is not affected by the colour of the medium.

Product description:

- Infra-red light source
- 90 degree scattered light detector
- Detector for determining the degree of contamination of the lens
- 2-wire 4–20 mA analogue output
- Measuring range: 0/4.000 | 0/40.00 | 0/400.0 NTU
- Sensitivity: 70/130 % (NTU)
- Zero: +0.400 NTU all measuring ranges
- Power supply: 9/36 V DC
- Analogue output (electrically isolated): 4–20 mA
- Load: 600 Ω max. at 24 VDC
- Digital output: RS 485
- Ambient temperature: -5/50 °C
- Max. pressure: 1 bar at 25 °C (TU 8325)
- Max. pressure: 6 bar at 25 °C (TU 8525)
- Automatic cleaning* with compressed air 3 bar max. (TU 8325, in case of highly contaminated media)
- Dimensions TU 8325: L = 165 mm total, D = 60 mm
- Dimensions TU 8525: L = 145 mm total, D = 40 mm
- Body: PVC
- Cable: 10 m (max 100 m)
- Protection class: IP 6

Areas of application:

- Quality monitoring, municipal and industrial water treatment, aquaculture

Scope of supply:

- **DOSASens TU 8325**, sensor, incl. 10 m connection cable, without a plug
- Please specify the desired measuring range when ordering (0/4.000 | 0/40.00 | 0/400.0)



Ordering data:

Model:	Measuring range: NTU	Resolution: NTU	Output signal:	Power supply:	Item No:
TU 8525	0/4.000 0/40.00 0/400.0	0.400	4–20 mA RS 485 - Modbus RTU	9–36 VDC	3210025
TU 8325 (with *cleaning option)	0/400.0				3210035

Accessories:

Model:	for sensor:	Item No:
Flow cell TU 910 (1)	TU 8325	9010021
Flow cell for the pipe T-piece (2)	TU 8325	9010022
Immersion cell	TU 8525	9010023

1.2.11.

DOSASens Oxygen measuring cells OD8325, OD8525

Measuring cells that measure the dissolved oxygen in water using the fluorescence principle. Due to the analogue and digital (4/20 mA, RS 485) outputs, the measuring cells can be connected to the most common PLCs or data acquisition cards.

Product description:

- Measurand: dissolved oxygen
- Secondary Parameters: pressure, salinity, redox
- Calibration:
 - at the controller, using reference solutions
- Automatic cleaning: through compressed air nozzle for external connection, at max. 3 bar (OD8325 only)
- Pressure range:
 - Operation at 25 °C: 6 bar (OD8525)
 - Operation at 25 °C: 1 bar (OD8325)
- Temperature range: 0 ... 60 °C
- Integrated automatic temperature compensation
- Response time: T_{90} 95 % < 60 seconds
- Salinity compensation (Chlorides): 0/600 x 100 ppm (100 ppm steps)
- Drift: < 1 % p.a.
- Flow rate: max. 1500 l/h
- Dimensions: 165 mm, Ø 60 mm (OD8325), 143 mm Ø 40 bzw. 43 mm (OD8525)
- Connection: two pole cable
- Material: PVC
- Protection class: IP 68

Areas of application:

- Drinking water, aquaculture, irrigation, food and beverage industry, paper industry, chemical and pharmaceutical industry, electroplating, surface treatment, printing industry, textile industry, wastewater technology

Scope of supply:

- DOSASens Oxygen measuring cell **OD8325** and/or **OD8525**, Connection cable (10 m), instruction manual



Ordering data:

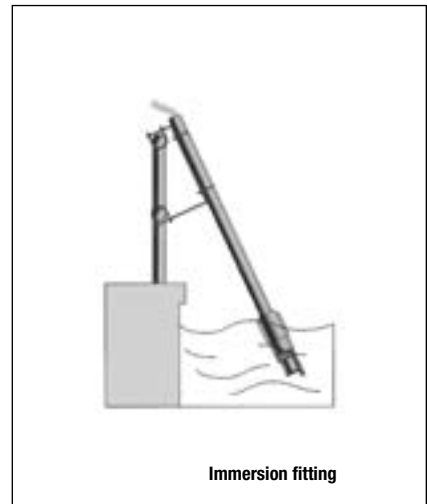
Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
OD8325	0,01... 20,00	0,01	4 ... 20 mA, RS 485, Modbus RTU	9/36 VDC	3210040
OD8525					3210030

Additional technical data:

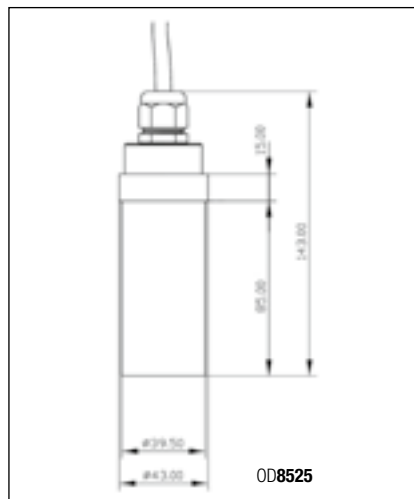
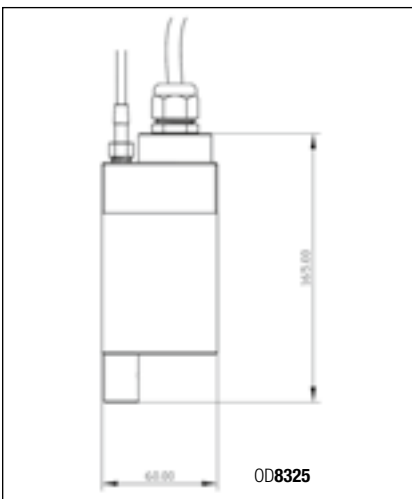
Type:	Reproducibility:	Measurement accuracy:	Scaling factor 4 ... 20 mA	analog output:
OD8325	± 0,5 %	± 1.0 % sat. < 10.0 % sat.	10/150 %	4 ... 20 mA loop, galvanically isolated
OD8525		± 2.0 % sat. > 10.0 % sat.		

2

Type:	for sensor:	Item number:
Flow-through fitting TU 910	TU 8325	9010021
Flow fitting for the pipe T-piece	TU 8325	9010022
Immersion fitting	TU 8525	9010023



Dimensions:



Subject to technical modifications and printing errors. Images may vary slightly from actual product.
07.07.2021

1.2.12.

DOSASens Temperature sensor CG 21 Pt 100

Temperature sensor, e.g. for automatic temperature compensation of the measurements. Particularly suitable for applications up to +100 °C.



Product description:

- Pressure range: 0–6 bar (at 80 °C)
- Temperature range: -10 to +100 °C
- Temperature sensor: Pt 100
- Quick response
- Sensor body: glass (steam sterilizable)
- Built-in version with PG 13.5 threaded connection for industrial fittings
- SN 6 – screw plug head

2

Areas of application:

- Highly fluctuating temperatures of up to 100 °C
- Food, beverages, pharmaceuticals

Scope of supply:

- DOSASens CG 21 Pt 100, Temperature Sensor

Ordering data:

Type:	Temperature sensor:	Steam sterilisation:	Shaft length: mm	Connection:	Cable connection:	Item number:
CG 21 Pt 100	Pt 100	Yes	120	PG 13.5	SN 6	3189150

1.2.13.

DOSASens Temperature sensor ETE

Temperature sensor, e.g. for automatic temperature compensation of the measurements. Especially designed for connection to our device series.

Product description:

- Pressure range: 0 – 10 bar (at 30 °C)
- Temperature range: 0 to +100 °C
- Sensing element: Pt 100, optionally NTC 10 kΩ, mV = 0.1 °C
- Quick response, even with fluctuating temperature
- PVDF sensor body
- ½" standard thread with 4 m fixed cable

Areas of application:

- Fluctuating temperature
- Need for quick response

Scope of supply:

- **DOSASens ETE**, Temperature Sensor (depending on measuring system, see below)

Ordering data:

Type:	Temperature sensor:	Item number:
ETE PTCH Pt100	Pt100	3313052

Options:

Type:	Temperature sensor:	Item number:
ETE PCH18 NTC	NTC 10 kΩ	3313051
ETE PCH18 NTC	mV = 0.1 °C	3313050

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
08.01.2019

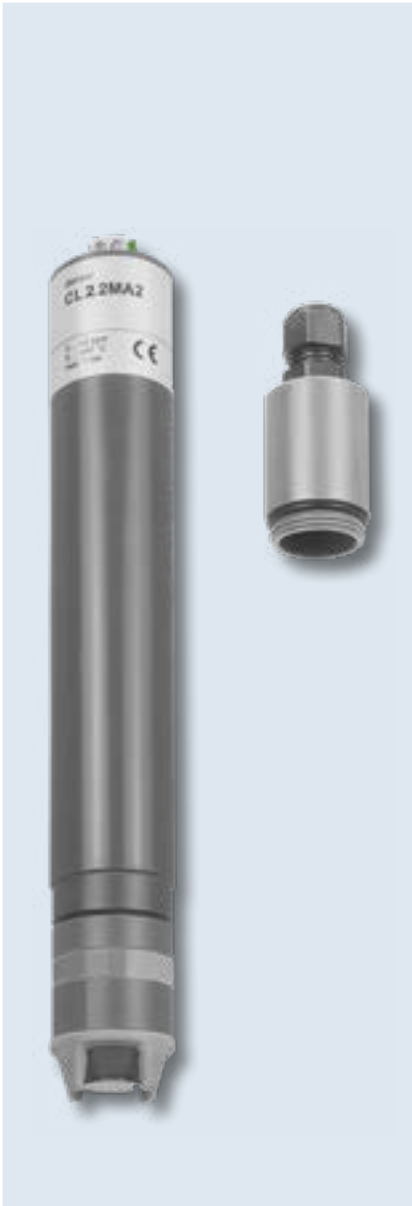


2. Sensors

1.3. Amperometric Sensors

1.3.1.

DOSASens Chlorine sensor CL2.2



Chlorine sensor with membrane-covered, amperometric 2-electrode system. For the measurement of free inorganic chlorine at constant pH.

Product description:

- Measurand(s): NaClO (sodium hypochlorite), Ca(ClO)₂ (calciumhypochlorite), Cl₂ (chlorine gas), chlorine generated by membrane electrolysis
- Calibration: at the controller, via analytical chlorine determination by DPD-1 method
- Interferences:
 - ClO₂ is being registered with factor 9 of its measured value
 - O₃ is registered
 - with membrane-less chlorine electrolysis interferences may occur
- Resolution: 0,001, 0,01 ppm (depends on type)
- pH range: 6–8
- Pressure range:
 - Operation without circlip: 0 ... 0.5 bar, no pressure surges and/or vibrations
 - Operation with circlip: 0 ... 1.0 bar, no pressure surges and/or vibrations
- Temperature range: 0–45 °C (no ice crystals in the measuring water)
- Integrated automatic temperature compensation (avoid temperature jumps!)
- Absence of the disinfectant: max. 24 h
- Response time: T₉₀ ca. 30 sec
- Flow rate: approx. 15–30 l/h, low flow-dependence
- Shaft length: standard 175 mm, and up to 220 mm in length (mA-Version)
- Connection: standard 4-pole plug; for mA-version 2-pole terminal
- Material: PVC-U and semipermeable membrane

2

Areas of application:

- Salt or Seawater from a concentration of > 3.5 to about 26% salinity, free of surfactants and with constant pH.

Scope of supply:

- DOSASens CL2.2 sensor, membrane cap, electrolyte, operating instructions

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CL2.2N	0.05–20.00	0.01	0 to -2000 mV, 1 kΩ	±5 to ±15 VDC, 10 mA	3326024
CL2.2MA2	0.005–2.00	0.001	4–20 mA	12–30 VDC R _L = 50–900 Ω	3326032
CL2.2MA20	0.05–20.00	0.01			3326013
CL2.2MA2-M12	0.005–2.00	0.001			3326008
CL2.2MA20-M12	0.05–20.00	0.01			3326009

Additional technical data:

Type:	Slope:	Connection:	Special characteristics:
CL2.2N	-100 mV/ppm	4-pin socket	-
CL2.2MA2	8.0 mA/ppm	2-pin terminal (2 x 1 mm ²)	Connection only to a controller with galvanically separated power supply.
CL2.2MA20	0.8 mA/ppm		
CL2.2MA2-M12	8.0 mA/ppm	5-pin M12 connector	
CL2.2MA20-M12	0.8 mA/ppm		

Spare parts:

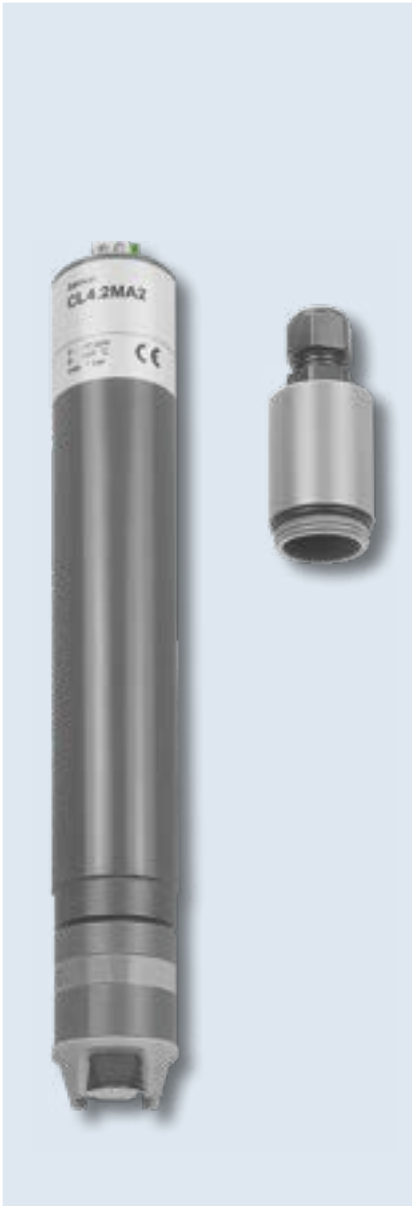
Spare parts:	for sensor type:	Item number:
Membrane cap M20.2	CL2.2 all types	9026001
Electrolyte ECL2.1	CL2.2 100 ml, all types	9026058

Accessories:

Type:	for sensor type:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 – 20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and mA Tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH	90231000

1.3.2.

DOSASens Chlorine sensor CL4.2



Chlorine sensor with membrane-covered, amperometric 2-electrode system. For the measurement of free inorganic chlorine at constant pH.

Product description:

- Measurand(s): NaClO (sodium hypochlorite), Ca(ClO)₂ (calciumhypochlorite), Cl₂ (chlorine gas), chlorine generated by membrane-electrolysis
- Calibration: at the controller, via analytical chlorine determination by DPD-1 method
- Interferences:
 - ClO₂ is being registered with factor 9 of its measured value
 - O₃ is registered
 - with membrane-less chlorine electrolysis interferences may occur
- pH range: 6–8
- Pressure range:
 - Operation without circlip: 0–0.5 bar, no pressure surges and/or vibrations
 - Operation with circlip: 0–1.0 bar, no pressure surges and/or vibrations
- Temperature range: 0–45 °C (no ice crystals in measurement water)
- Integrated automatic temperature compensation
- Response time: T₉₀ ca. 30 seconds
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 15–30 l/h, low flow-dependence
- Shaft length: standard 175 mm, and up to 220 mm in length (mA-Version)
- Connection: standard 4-pole plug; for mA-version 2-pole terminal, M12 male or Modbus RTU with M12 male
- Material: PVC-U and semipermeable membrane

2

Areas of application:

- Swimming pool, drinking, service and process water, free of surfactants and with constant pH.

Scope of supply:

- DOSASens CL4.2 sensor, membrane cap, electrolyte, operating manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CL4.2H	0.005–2.00	0.001	0 to -2000 mV 1 kΩ	±5 to ±15 VDC 10 mA	3326210
CL4.2DW	0.005–5.00	0.001			3326211
CL4.2N	0.05–20.00	0.01			3326212
CL4.2L	0.5–200.00	0.1			3326213
CL4.2H-An	0.005–2.00	0.001	Modbus RTU	9 to 30 VDC approx. 20–56 mA	3326215
CL4.2N-An	0.05–20.00	0.01			3326216
CL4.2L-An	0.5–200.00	0.1			3326217
CL4.2H-MOc	0.005–2.00	0.001	3326225		
CL4.2N-MOc	0.05–20.00	0.01	3326226		
CL4.2L-MOc	0.5–200.00	0.1	3326227		

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CL4.2MA0,5	0.01 – 0.50	0.01	4–20 mA	12–30 VDC $R_L = 50–900 \Omega$	3326240
CL4.2MA2	0.01 – 2.00	0.01			3326241
CL4.2MA5	0.01 – 5.00	0.01			3326242
CL4.2MA10	0.01 – 10.00	0.01			3326243
CL4.2MA20	0.01 – 20.00	0.01			3326244
CL4.2MA-100	0.1 – 100	0.1			3326245
CL4.2MA-200	0.1 – 200	0.1		3326246	
CL4.2MA0,5-M12	0.01 – 0.50	0.01	4–20 mA	12–30 VDC $R_L = 50–900 \Omega$	3326250
CL4.2MA2-M12	0.01 – 2.00	0.01			3326251
CL4.2MA5-M12	0.01 – 5.00	0.01			3326252
CL4.2MA10-M12	0.01 – 10.00	0.01			3326253
CL4.2MA20-M12	0.01 – 20.00	0.01			3326254
CL4.2MA-100-M12	0.1 – 100	0.1			3326255
CL4.2MA-200-M12	0.1 – 200	0.1		3326256	

Additional technical data:

Type:	Slope:	Connection:	Special characteristics:
CL4.2H	-1000 mV/ppm	4-pole plug	Connection only to a controller with galvanically separated power supply.
CL4.2DW	-300 mV/ppm		
CL4.2N	-100 mV/ppm		
CL4.2L	-10 mV/ppm		
CL4.2H-An	-1000 mV/ppm		
CL4.2N-An	-100 mV/ppm		
CL4.2L-An	-10 mV/ppm		
CL4.2H-M0c	Modbus RTU	M12 male	
CL4.2N-M0c			
CL4.2L-M0c			
CL4.2MA0,5	32.0 mA/ppm	2-pole terminal	Connection only to a controller with galvanically separated power supply.
CL4.2MA2	8.0 mA/ppm		
CL4.2MA5	3.20 mA/ppm		
CL4.2MA10	1.6 mA/ppm		
CL4.2MA20	0.8 mA/ppm		
CL4.2MA-100	0.16 mA/ppm		
CL4.2MA-200	0.08 mA/ppm	M12 male	
CL4.2MA0,5-M12	32.0 mA/ppm		
CL4.2MA2-M12	8.0 mA/ppm		
CL4.2MA5-M12	3.20 mA/ppm		
CL4.2MA10-M12	1.6 mA/ppm		
CL4.2MA20-M12	0.8 mA/ppm		
CL4.2MA-100-M12	0.16 mA/ppm		
CL4.2MA-200-M12	0.08 mA/ppm		

Spare parts:

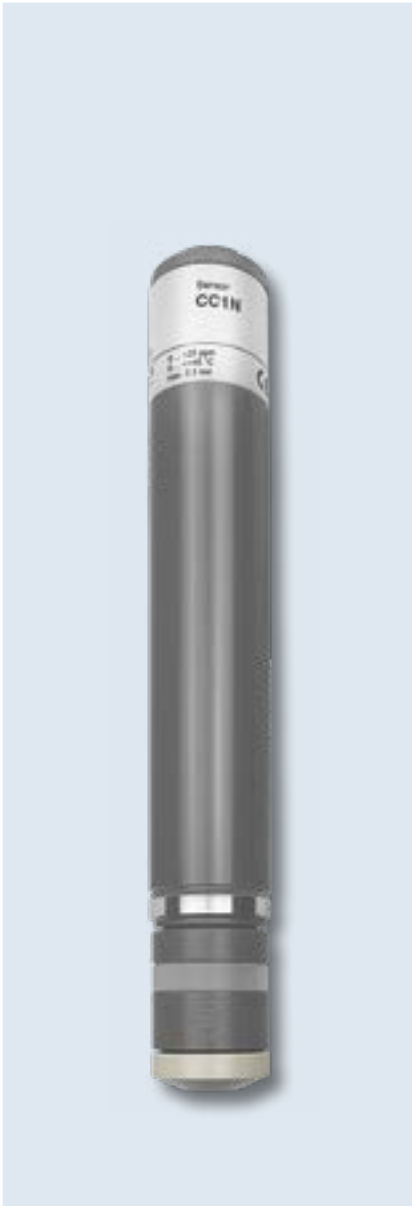
Spare parts:	for sensor type:	Item number:
Membrane cap M20.2	CL4.2 all types	9026001
Electrolyte ECL1	CL4.2 all types	9026050

Accessories:

Type:	for sensor type:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 – 20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and mA Tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH	90231000

1.3.3.

DOSASens Chlorine sensor CC1



Chlorine sensor with membrane-covered, amperometric 3-electrode system. For the measurement of free chlorine on the basis of iso-cyanuric acid, also in seawater, with reduced pH dependence.

Product description:

- Measurand(s): NaClO (sodium hypochlorite), Ca(ClO)₂ (calcium hypochlorite), Cl₂ (chlorine gas), electrolytically generated chlorine, and organic combined chlorine based on iso-cyanuric acid (tested up to an isocyanuric acid concentration of 500 mg/l)
- In the presence of isocyanuric acid, the sensor measures the total bound organic chlorine (within the isocyanuric acid) and the free chlorine already released from it
- Calibration: at the controller, via analytical chlorine determination by DPD 1 method, observe the isocyanuric acid concentration when determining the free chlorine
- Interferences:
 - ClO₂ is 100 % detected
 - O₃ is detected
- pH range: 4 – 12, greatly reduced pH dependence
- Pressure range:
 - Operation without circlip: 0 ... 0.5 bar (no pressure surges and/or vibrations)
 - Operation with circlip: 0 ... 1.0 bar (no pressure surges and/or vibrations)
- Temperature range: 0 – 45 °C, (no ice crystals in test water allowed)
- Integrated automatic temperature compensation
- Response time: T₉₀ approx. 2 min.
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 30 l/h, low flow dependence
- Shaft length: standard 175 mm, and up to 220 mm in length (mA-Version)
- Connection: standard 4-pole plug; for mA-version 2-pole terminal, M12 male or Modbus RTU with M12 male
- Material: PVC-U, PEEK, stainless steel 1.4571, microporous hydrophilic membrane

2

Areas of application:

- Swimming pool, drinking, sea water, surfactants are tolerated in part.

Scope of supply:

- DOSASens CC1 sensor, membrane cap, electrolyte for use in fresh water use, instruction manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CC1H	0.005–2.000	0.001	0 to -2000 mV	±5 to ±15 VDC	3326102
CC1N	0.05–20.00	0.01	1 kΩ	10 mA	3326090
CC1H-An	0.005–2.000	0.001	0 to -2000 mV	9–30 VDC 20–56 mA	3426600
CC1N-An	0.05–20.00	0.01	1 kΩ		3426601
CC1H-M0c	0.005–2.000	0.001	Modbus RTU		3426610
CC1N-M0c	0.05–20.00	0.01			3426611
CC1MA2	0.01–2.00	0.01	4–20 mA	12–30 VDC R _L = 50 Ω to 900 Ω	3326094
CC1MA5	0.01–5.00	0.01			3326096
CC1MA10	0.01–10.00	0.01			3326095
CC1MA20	0.01–20.00	0.01			3326107
CC1MA2-M12	0.01–2.00	0.01			3426615
CC1MA5-M12	0.01–5.00	0.01			3426616
CC1MA10-M12	0.01–10.00	0.01			3426617
CC1MA20-M12	0.01–20.00	0.01			3426618

Additional technical data:

Type:	Slope:	Connection:	Special characteristics:
CC1H	-1000 mV/ppm	4-pole plug	Connection only to a controller with galvanically separated power supply.
CC1N	-100 mV/ppm		
CC1H-An	-1000 mV/ppm		
CC1N-An	-100 mV/ppm		
CC1H-M0c	-1000 mV/ppm	M12 male	-
CC1N-M0c	-100 mV/ppm		
CC1MA2	8.0 mA/ppm	2-pole terminal	Connection only to a controller with galvanically separated power supply.
CC1MA5	3.2 mA/ppm		
CC1MA10	1.6 mA/ppm		
CC1MA20	0.8 mA/ppm		
CC1MA2-M12	8.0 mA/ppm	M12 male	
CC1MA5-M12	3.2 mA/ppm		
CC1MA10-M12	1.6 mA/ppm		
CC1MA20-M12	0.8 mA/ppm		

Spare parts:

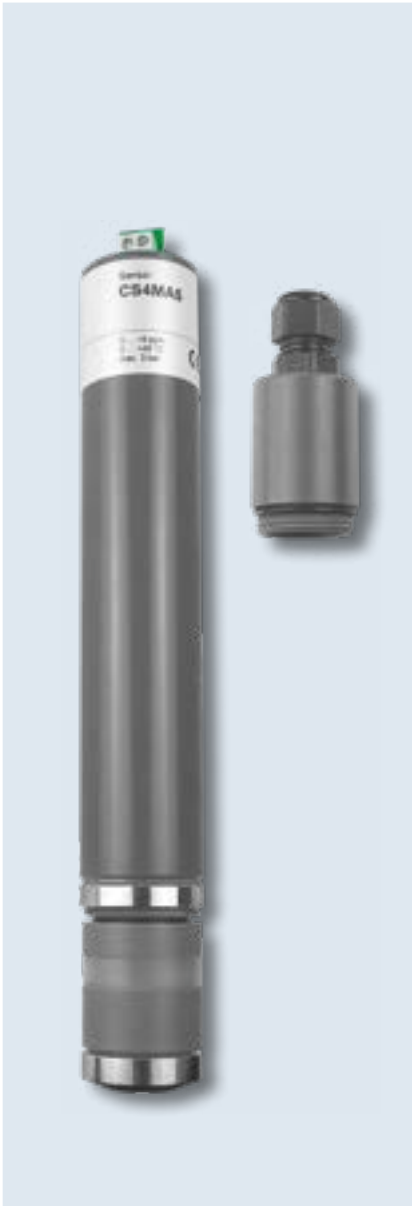
Spare parts:	for sensor type:	Item number:
Membrane cap M48.2	CC1 all types	9026020
Electrolyte ECC1.1	CC1 all types	9026075

Accessories:

Type:	for sensor type:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 – 20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and mA Tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH	90231000

1.3.4.

DOSASens Chlorine sensor CS4



Chlorine sensor with membrane-covered, amperometric 3-electrode system. For the measurement of free inorganic chlorine with reduced pH-dependence.

Product description:

- Measurand(s): NaClO (sodium hypochlorite), Ca(OCl)₂ (calcium hypochlorite), Cl₂ (chlorine gas), electrolytically generated chlorine
- Calibration: at the controller, via analytical chlorine determination by DPD-1 method
- Interferences:
 - 75 % of ClO₂-concentration,
 - 80 % of O₃-concentration
 - combined chlorine may increase the measuring value
- pH range: 4–9
- Pressure range:
 - Operation without circlip: 0–0.5 bar, no pressure surges and/or vibrations
 - Operation with circlip: 0–3.0 bar, no pressure surges and/or vibrations
- Temperature range: 0–45 °C
- Integrated automatic temperature compensation
- Response time: T₉₀ approx. 2 min.
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 15–30 l/h, low flow-dependence
- Shaft length: standard 175 mm, and up to 220 mm in length (mA-Version)
- Connection: standard 4-pole plug; for mA-version 2-pole terminal, M12 male or Modbus RTU with M12 male
- Material: PVC-U, PEEK, stainless steel 1.4571, microporous hydrophilic membrane

Areas of application:

- Swimming pool, drinking water, surfactants are partially tolerated.

Scope of supply:

- DOSASens CS4 sensor, membrane cap, electrolyte, operating manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CS4H	0.005–2.00	0.001	0 to -2000 mV 1 kΩ	±5 to ±15 VDC 10 mA	3426300
CS4N	0.05–20.00	0.01			3426301
CS4L	0.50–200.0	0.1			3426302
CS4H-An	0.005–2.00	0.001		9–30 VDC 20–56 mA	3426320
CS4N-An	0.05–20.00	0.01			3426321
CS4L-An	0.50–200.0	0.1			3426322
CS4H-M0c	0.005–2.00	0.001	ModBus RTU	3426360	
CS4N-M0c	0.05–20.00	0.01		3426361	
CS4L-M0c	0.50–200.0	0.1		3426362	

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CS4MA2	0.01 – 2.00	0.01	4 – 20 mA	12 – 30 VDC R _L = 50 – 900 Ω	3426303
CS4MA5	0.01 – 5.00	0.01			3426304
CS4MA10	0.01 – 10.00	0.01			3426305
CS4MA20	0.01 – 20.00	0.01			3426306
CS4MA200	0.50 – 200.0	0.10			3426307
CS4MA2-M12	0.01 – 2.00	0.01			3426313
CS4MA5-M12	0.01 – 5.00	0.01			3426314
CS4MA10-M12	0.01 – 10.00	0.01			3426315
CS4MA20-M12	0.01 – 20.00	0.01			3426316
CS4MA200-M12	0.50 – 200.0	0.10			3426317

Additional technical data:

Type:	Slope:	Connection:	Special characteristics:
CS4H	-1000 mV/ppm	4-pin plug	Connection only to a controller with galvanically separated power supply.
CS4N	-100 mV/ppm		
CS4L	-10 mV/ppm		
CS4H-An	-1000 mV/ppm		
CS4N-An	-100 mV/ppm		
CS4L-An	-10 mV/ppm		
CS4H-M1c	Modbus RTU	M12 female	-
CS4N-M1c			
CS4L-M1c			
CS4MA2	8.0 mA/ppm	2-pole terminal	Connection only to a controller with galvanically separated power supply.
CS4MA5	3.2 mA/ppm		
CS4MA10	1.6 mA/ppm		
CS4MA20	0.8 mA/ppm		
CS4MA200	0.08 mA/ppm		
CS4MA2-M12	8.0 mA/ppm	M12 female	
CS4MA5-M12	3.2 mA/ppm		
CS4MA10-M12	1.6 mA/ppm		
CS4MA20-M12	0.8 mA/ppm		
CS4MA200-M12	0.08 mA/ppm		

Spare parts:

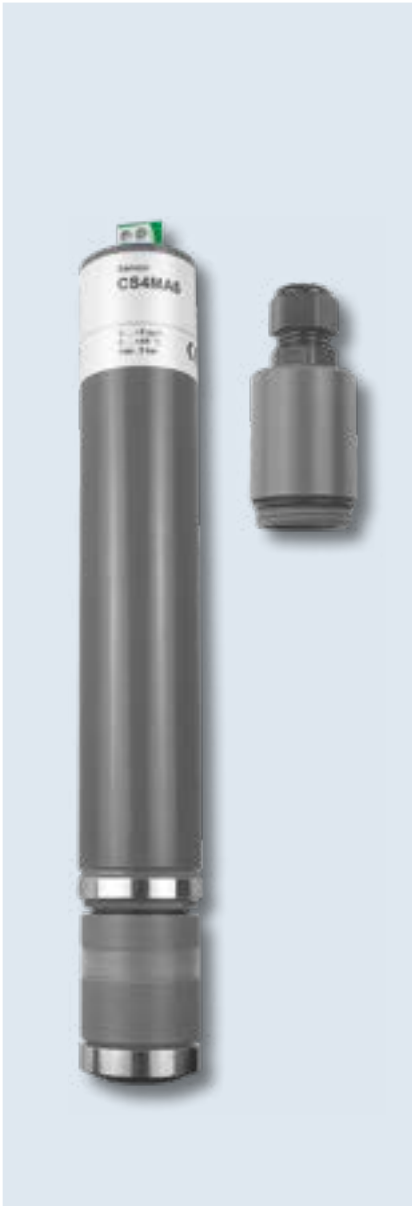
Spare parts:	for sensor type:	Item number:
Membrane cap M48.4E	CS4 all types	9026023
Electrolyte ECS2.1	CS4 all types	9026060

Accessories:

Type:	for sensor type:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 – 20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and mA Tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH	90231000

1.3.5.

DOSA*Sens* Chlorine sensor CS4-...-SW



Chlorine sensor with membrane-covered, amperometric 3-electrode system. For the measurement of free inorganic chlorine with reduced pH-dependence in sea water.

Product description:

- Measurand(s): NaClO (sodium hypochlorite), Ca(OCl)₂ (calcium hypochlorite), Cl₂ (chlorine gas), electrolytically generated chlorine
- Calibration: at the controller, via analytical chlorine determination by DPD-1 method
- Interferences:
 - 75 % of ClO₂-concentration
 - 80 % of O₃-concentration
 - combined chlorine may increase the measuring value
- pH range: 4–9
- Pressure range:
 - Operation without circlip: 0–0.5 bar, no pressure surges and/or vibrations
 - Operation with circlip: 0–3.0 bar, no pressure surges and/or vibrations
- Temperature range: 0–45 °C
- Integrated automatic temperature compensation
- Response time: T₉₀ approx. 2 min.
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 15–30 l/h, low flow-dependence
- Shaft length: standard 175 mm, and up to 220 mm in length (mA-Version)
- Connection: standard 4-pole plug; for mA-version 2-pole terminal, M12 male or Modbus RTU with M12 male
- Material: PVC-U, PEEK, stainless steel 1.4571, microporous hydrophilic membrane

2

Areas of application:

- Sea water at 10 µS/cm to 50 mS/cm, surfactants are partially tolerated.

Scope of supply:

- DOSA*Sens* CS4-...-SW sensor, membrane cap, electrolyte, operating manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CS4H-SW	0.005–2.00	0.001	0 to -2000 mV 1 kΩ	±5 to ±15 VDC 10 mA	3426900
CS4N-SW	0.05–20.00	0.01			3426901
CS4L-SW	0.50–200.0	0.1			3426902
CS4H-An-SW	0.005–2.00	0.001		9–30 VDC 20–56 mA	3426920
CS4N-AnSW	0.05–20.00	0.01			3426921
CS4L-An-SW	0.50–200.0	0.1			3426922
CS4H-M0c-SW	0.005–2.00	0.001	ModBus RTU	3426960	
CS4N-M0c-SW	0.05–20.00	0.01		3426961	
CS4L-M0c-SW	0.50–200.0	0.1		3426962	

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
22.04.2021

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CS4MA2-SW	0.01 – 2.00	0.01	4–20 mA	12 – 30 V DC $R_L = 50 – 900 \Omega$	3426903
CS4MA5-SW	0.01 – 5.00	0.01			3426904
CS4MA10-SW	0.01 – 10.00	0.01			3426905
CS4MA20-SW	0.01 – 20.00	0.01			3426906
CS4MA200-SW	0.50 – 200.0	0.10			3426907
CS4MA2-M12-SW	0.01 – 2.00	0.01			3426913
CS4MA5-M12-SW	0.01 – 5.00	0.01			3426914
CS4MA10-M12-SW	0.01 – 10.00	0.01			3426915
CS4MA20-M12-SW	0.01 – 20.00	0.01			3426916
CS4MA200-M12-SW	0.50 – 200.0	0.10			3426917

Additional technical data:

Type:	Slope:	Connection:	Special characteristics:
CS4H-SW	-1000 mV/ppm	4-pin plug	Connection only to a controller with galvanically separated power supply.
CS4N-SW	-100 mV/ppm		
CS4L-SW	-10 mV/ppm		
CS4H-An-SW	-1000 mV/ppm		
CS4N-An-SW	-100 mV/ppm		
CS4L-An-SW	-10 mV/ppm		
CS4H-M1c-SW	Modbus RTU	M12 female	-
CS4N-M1c-SW			
CS4L-M1c-SW			
CS4MA2-SW	8.0 mA/ppm	2-pole terminal	Connection only to a controller with galvanically separated power supply.
CS4MA5-SW	3.2 mA/ppm		
CS4MA10-SW	1.6 mA/ppm		
CS4MA20-SW	0.8 mA/ppm		
CS4MA200-SW	0.08 mA/ppm		
CS4MA2-M12-SW	8.0 mA/ppm	M12 female	
CS4MA5-M12-SW	3.2 mA/ppm		
CS4MA10-M12-SW	1.6 mA/ppm		
CS4MA20-M12-SW	0.8 mA/ppm		
CS4MA200-M12-SW	0.08 mA/ppm		

Spare parts:

Spare parts:	For sensor type:	Item number:
Membrane cap M48.4S	CS4 all types, for use in sea water	9026026
Electrolyte ECS2.1	CS4 all types	9026060

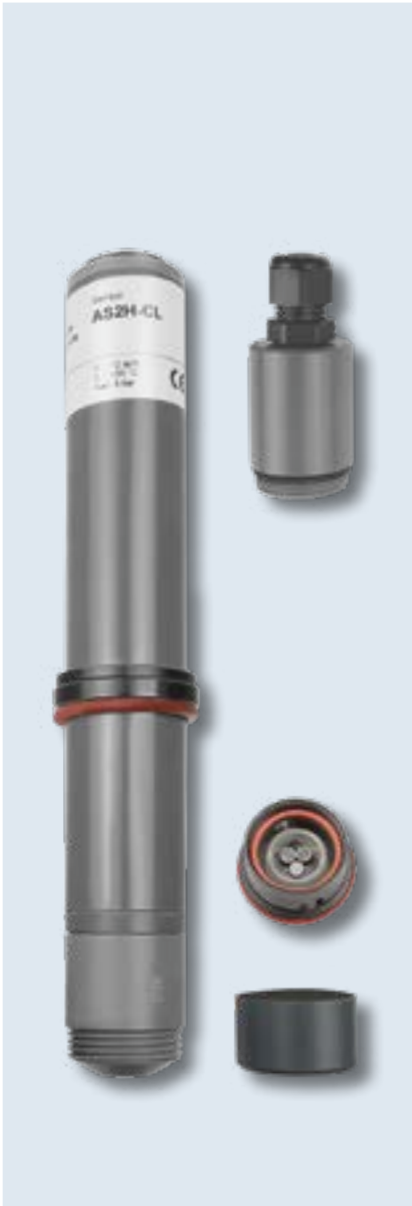
Accessories:

Type:	For sensor type:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 – 20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and mA Tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH	90231000

1.3.6.

DOSA*Sens* Chlorine sensor AS2, AS3

Sensor for the measurement of free, inorganic chlorine with open measuring cell. Optional with cleaning device. Amperometric, 3-electrode system with potentiostatic circuit



Product description:

- Measurand(s): free chlorine made of chlorine bleaching or chlorine gas and electrolytically generated chlorine
- Calibration: at the controller, via analytical determination by DPD-1 method
- Interferences: ozone, chlorine dioxide, chlorite are also registered
- pH range: 5–9
- Pressure range:
 - Operation without circlip: 0 ... 0.5 bar
 - Operation with circlip: 0 ... 8.0 bar
- Temperature range: 0– 50 °C (AS2), 0 –70 °C (AS3)
- Integrated automatic temperature compensation
- Response time: T₉₀ approx. 30 s
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 15 l/h (with RV1 increased to approx. 45– 90 l/h)
- With the cleaning device (RV1) there is a restriction of the measuring range to 0,7 or 7 ppm
- Shaft length: standard 175 mm, and up to 220 mm in length (mA-Version)
- Connection: standard 4-pole plug; for mA-version 2-pole terminal, M12 male or Modbus RTU with M12 male
- Material: PVC-U (AS2), PEEK (AS3)

2

Areas of application:

- Fresh water, especially drinking water, up to max. 70 °C.

Scope of supply:

- DOSA*Sens* AS2, AS3 sensor, electrolyte hull, electrolyte, operating manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
AS2H-CL	0.005–2.00	0.001	0 to -2000 mV 1 kΩ	±5 to ± 15 VDC 10 mA	3326128
AS2N-CL	0.03–20.00	0.01			3326110
AS2H-CL-An	0.005–2.00	0.001	Modbus RTU	9–30 VDC 20–56 mA	3426750
AS2N-CL-An	0.03–20.00	0.01			3426751
AS2H-CL-M0c	0.005–2.00	0.001			3426770
AS2N-CL-M0c	0.03–20.00	0.01			3426771

Ordering data:

Type: (up to 50°C)	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
AS2MA1-CL	0.03– 1.00	0.01	4–20 mA	12–30 VDC $R_L = 50–900 \Omega$	3326111
AS2MA2-CL	0.03– 2.00	0.01			3326113
AS2MA5-CL	0.03– 5.00	0.01			3326112
AS2MA10-CL	0.03–10.00	0.01			3326115
AS2MA20-CL	0.03–20.00	0.01			3326116
AS2MA1-CL-M12	0.03– 1.00	0.01			3426790
AS2MA2-CL-M12	0.03– 2.00	0.01			3426791
AS2MA5-CL-M12	0.03– 5.00	0.01			3426792
AS2MA10-CL-M12	0.03–10.00	0.01			3426793
AS2MA20-CL-M12	0.03–20.00	0.01			3426794
Type: (up to 70°C)	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
AS3H-CL	0.005–2.00	0.001	0 to -2000 mV 1 k Ω	± 5 to ± 15 V DC 10 mA	3326126
AS3N-CL	0.03–20.00	0.01		3326120	
AS3H-CL-An	0.005–2.00	0.001	Modbus RTU	9 to ± 30 V DC 20–56 mA	3426700
AS3N-CL-An	0.03–20.00	0.01			3426701
AS3H-CL-M0c	0.005–2.00	0.001			3426720
AS3N-CL-M0c	0.03–20.00	0.01			3426721
AS3MA1-CL	0.03– 1.00	0.01	4–20 mA	12–30 VDC $R_L = 50–900 \Omega$	3326121
AS3MA2-CL	0.03– 2.00	0.01			3326123
AS3MA5-CL	0.03– 5.00	0.01			3326122
AS3MA10-CL	0.03–10.00	0.01			3326125
AS3MA20-CL	0.03–20.00	0.01			3326127
AS3MA1-CL-M12	0.03– 1.00	0.01			3426740
AS3MA2-CL-M12	0.03– 2.00	0.01			3426741
AS3MA5-CL-M12	0.03– 5.00	0.01			3426742
AS3MA10-CL-M12	0.03–10.00	0.01			3426743
AS3MA20-CL-M12	0.03–20.00	0.01			3426744

Additional technical data:

Type: (up to 50°C)	Slope:	Connection:	Special characteristics:
AS2H-CL	-1000 mV/ppm	4-pin plug	Connection only to a controller with galvanically separated power supply.
AS2N-CL	-100 mV/ppm		
AS2H-CL-An	-1000 mV/ppm		
AS2N-CL-An	-100 mV/ppm		
AS2H-CL-M0c	Modbus RTU	M12 female	Connection only to a controller with galvanically separated power supply.
AS2N-CL-M0c			
AS2MA1-CL	16 mA/ppm	2 pole terminal	
AS2MA2-CL	8.0 mA/ppm		
AS2MA5-CL	3.2 mA/ppm		
AS2MA10-CL	1.6 mA/ppm		
AS2MA20-CL	0.8 mA/ppm		
AS2MA1-CL-M12	16 mA/ppm	M12 female	
AS2MA2-CL-M12	8.0 mA/ppm		
AS2MA5-CL-M12	3.2 mA/ppm		
AS2MA10-CL-M12	1.6 mA/ppm		
AS2MA20-CL-M12	0.8 mA/ppm		

Additional technical data:

Type:	Slope:	Connection:	Special characteristics:
(up to 70°C)			
AS3H-CL	-1000 mV/ppm	4-pole plug	Connection only to a controller with galvanically separated power supply.
AS3N-CL	-100 mV/ppm		
AS3H-CL-An	-1000 mV/ppm		
AS3N-CL-An	-100 mV/ppm		
AS3H-CL-M0c	Modbus RTU	M12 male	-
AS3N-CL-M0c			
AS3MA1-CL	16 mA/ppm	2-pole terminal	Connection only to a controller with galvanically separated power supply.
AS3MA2-CL	8.0 mA/ppm		
AS3MA5-CL	3.2 mA/ppm		
AS3MA10-CL	1.6 mA/ppm		
AS3MA20-CL	0.8 mA/ppm		
AS3MA1-CL-M12	16 mA/ppm	M12 male	
AS3MA2-CL-M12	8.0 mA/ppm		
AS3MA5-CL-M12	3.2 mA/ppm		
AS3MA10-CL-M12	1.6 mA/ppm		
AS3MA20-CL-M12	0.8 mA/ppm		

2

Spare parts:

Spare parts:	for sensor type:	Item number:
Abrasive paper S3	AS all types	9026103
Electrolyte hull PVC	AS2 all types	9026154
Electrolyte hull PEEK	AS3 all types	9026220
Electrolyte EAS1/Gel	AS all types	9026066

Accessories:

Type:	for sensor type:	Item number:
Cleaning device RV1	AS (all types), *with RV1 there is a restriction of the measuring range to 0,7 or 7 ppm	9026180
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 – 20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and mA Tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH	90231000

1.3.7.

DOSASens Chlorine sensor CP4.0



Chlorine sensor with membrane-covered, amperometric 3-electrode system. For the measurement of total chlorine with greatly reduced pH-dependence.

Product description:

- Measurand(s): NaClO (sodium hypochlorite), Ca(ClO)₂ (calcium hypochlorite), Cl₂ (chlorine gas), electrolytically generated chlorine
- Calibration: at the controller, via analytical chlorine determination by DPD-4 method (DPD-1 + DPD-3)
- Interferences:
 - ClO₂ is registered with 100 %,
 - O₃ is measured with a slope of approx. 130% (factor 1.3 with regard to the chlorine slope)
- Resolution: depending on the sensor type 0.1 – 0.001 ppm
- pH range: 4 – 12 (linear decrease with approx. 5 % per increasing pH-unit)
- Pressure range:
 - Operation without circlip: 0 – 0.5 bar, no pressure surges and/or vibrations
 - Operation with circlip: 0 – 3.0 bar, no pressure surges and/or vibrations
- Temperature range: 0 – 45 °C (no ice crystals are allowed in the water)
- Sensor with automatic temperature compensation
- Response time: T₉₀ approx. 3 min.
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 15 – 30 l/h, low flow-dependence
- Shaft length: standard 175 mm, and up to 220 mm in length (mA-Version)
- Connection: standard 4-pole plug; for mA-version 2-pole terminal, M12 male, or Modbus RTU with M12 male
- Material: microporous hydrophilic membrane, PVC-U, Peek, stainless steel 1.4571

2

Areas of application:

- Swimming pool, drinking water, surfactants are partially tolerated.

Scope of supply:

- DOSASens CP4 sensor, membrane cap, electrolyte, operating manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CP4.0H	0.005 – 2.00	0.001	0 to -2000 mV/ 1 kΩ	±5 to ± 15 VDC 10 mA	3226300
CP4.0N	0.05 – 20.00	0.01			3226301
CP4.0MA0,5	0.05 – 0.50	0.01	4 – 20 mA	12 – 30 VDC R _L = 50 – 900 Ω	3226310
CP4.0MA2	0.01 – 2.00	0.01			3226311
CP4.0MA5	0.01 – 5.00	0.01			3226312
CP4.0MA10	0.01 – 10.00	0.01			3226313
CP4.0MA20	0.01 – 20.00	0.01			3226314

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CP4.0MA0,5-M12	0.05 – 0.50	0.01	4 – 20 mA	12 – 30 VDC $R_L = 50$ to 900Ω	3226320
CP4.0MA2-M12	0.01 – 2.00	0.01			3226321
CP4.0MA5-M12	0.01 – 5.00	0.01			3226322
CP4.0MA10-M12	0.1 – 10.00	0.01			3226323
CP4.0MA20-M12	0.01 – 20.00	0.01			3226324
CP4.0H-An	0.005 – 2.00	0.001	0 to -2000 mV/ (max. -2500 mV), 1 k Ω	9 – 30 VDC ca. 20 – 56 mA	3226330
CP4.0N-An	0.05 – 20.00	0.01	Modbus RTU		3226331
CP4.0H-M0c	0.005 – 2.00	0.001			3226340
CP4.0N-M0c	0.05 – 20.00	0.01			3226341

Additional technical data:

Type:	Slope:	Connection:	Special characteristics:
CP4.0H	-1000 mV/ppm	4-pin plug	Connection only to a controller with galvanically separated power supply.
CP4.0N	-100 mV/ppm		
CP4.0MA0,5	32.0 mA/ppm	2-pole terminal	
CP4.0MA2	8.0 mA/ppm		
CP4.0MA5	3.2 mA/ppm		
CP4.0MA10	1.6 mA/ppm		
CP4.0MA20	0.8 mA/ppm		
CP4.0MA0,5-M12	32.0 mA/ppm		
CP4.0MA2-M12	8.0 mA/ppm	M12 female	
CP4.0MA5-M12	3.2 mA/ppm		
CP4.0MA10-M12	1.6 mA/ppm		
CP4.0MA20-M12	0.8 mA/ppm		
CP4.0H-An	-1000 mV/ppm	4-pin plug	
CP4.0N-An	-100 mV/ppm	4-pin plug	
CP4.0H-M0c	Modbus RTU	5-pin plug	
CP4.0N-M0c			

Spare parts:

Spare parts:	for sensor type:	Item number:
Membrane cap M48.4E	CP4.0 all types	9t026023
Electrolyte ECP1.4/GEL	CP4.0 all types	9026074

Accessories:

Type:	for sensor type:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 – 20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and mA Tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH	90231000

1.3.8.

DOSASens Chlorine sensor CP4.0-...-SW



Chlorine sensor with membrane-covered, amperometric 3-electrode system. For the measurement of total chlorine with greatly reduced pH-dependence. Suitable for Seawater.

Product description:

- Measurand(s): NaClO (sodium hypochlorite), Ca(ClO)₂ (calcium hypochlorite), Cl₂ (chlorine gas), electrolytically generated chlorine
- Calibration: at the controller, via analytical chlorine determination by DPD-4 method (DPD-1 + DPD-3)
- Interferences:
 - ClO₂ is registered with 100 %,
 - O₃ is measured with a slope of approx. 130% (factor 1.3 with regard to the chlorine slope)
- Resolution: depending on the sensor type 0.1 – 0.001 ppm
- pH range: 4–12 (linear decrease with approx. 5 % per increasing pH-unit)
- Pressure range:
 - Operation without circlip: 0–0.5 bar, no pressure surges and/or vibrations
 - Operation with circlip: 0–3.0 bar, no pressure surges and/or vibrations
- Temperature range: 0–45 °C (no ice crystals are allowed in the water)
- Sensor with automatic temperature compensation
- Response time: T₉₀ approx. 5 min.
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 15–30 l/h, low flow-dependence
- Shaft length: standard 175 mm, and up to 220 mm in length (mA-Version)
- Connection: standard 4-pole plug; for mA-version 2-pole terminal, M12 male, or Modbus RTU with M12 male
- Material: microporous hydrophilic membrane, PVC-U, Peek, stainless steel

2

Areas of application:

- Seawater, brine (15 % NaCl) surfactants are partially tolerated.

Scope of supply:

- DOSASens CP4-...-SW sensor, membrane cap, electrolyte, operating manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CP4.0H-SW	0.005–2.00	0.001	0 to -2000 mV/ 1 kΩ	±5 to ±15 VDC 10 mA	3226350
CP4.0N-SW	0.05–20.00	0.01			3226351
CP4.0MA0,5-SW	0.05–0.50	0.01	4–20 mA	12–30 VDC R _L = 50–900 Ω	3226360
CP4.0MA2-SW	0.01–2.00	0.01			3226361
CP4.0MA5-SW	0.01–5.00	0.01			3226362
CP4.0MA10-SW	0.01–10.00	0.01			3226363
CP4.0MA20-SW	0.01–20.00	0.01			3226364

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CP4.0MA0,5-SW-M12	0.05 – 0.50	0.01	4 – 20 mA	12 – 30 VDC R _i = 50 to 900 Ω	3226370
CP4.0MA2-SW-M12	0.01 – 2.00	0.01			3226371
CP4.0MA5-SW-M12	0.01 – 5.00	0.01			3226372
CP4.0MA10-SW-M12	0.01 – 10.00	0.01			3226373
CP4.0MA20-SW-M12	0.01 – 20.00	0.01			3226374
CP4.0H-An-SW	0.005 – 2.000	0.001	0 to -2000 mV/(max. -2500 mV) 1 kΩ	9 – 30 VDC ca. 20 to 56 mA	3226380
CP4.0N-An-SW	0.05 – 20.00	0.01	Modbus RTU		3226381
CP4.0H-M0c-SW	0.005 – 2.000	0.001			3226390
CP4.0N-M0c-SW	0.05 – 20.00	0,01			3226391

Additional technical data:

Type:	Slope:	Conductivity: µS/cm (brine)	Connection:	Special characteristics:	
CP4.0H-SW	-1000 mV/ppm	approx. 10 – 200	4-pin plug	Connection only to a controller with galvanically separated power supply.	
CP4.0N-SW	-100 mV/ppm		2-pole terminal		
CP4.0MA0,5-SW	32.0 mA/ppm				
CP4.0MA2-SW	8.0 mA/ppm				
CP4.0MA5-SW	3.2 mA/ppm				
CP4.0MA10-SW	1.6 mA/ppm				
CP4.0MA20-SW	0.8 mA/ppm				
CP4.0MA0,5-SW-M12	32.0 mA/ppm				M12 female
CP4.0MA2-SW-M12	8.0 mA/ppm				
CP4.0MA5-SW-M12	3.2 mA/ppm				
CP4.0MA10-SW-M12	1.6 mA/ppm				
CP4.0MA20-SW-M12	0.8 mA/ppm				4-pin plug
CP4.0H-An-SW	-1000 mV/ppm				
CP4.0N-An-SW	-100 mV/ppm				
CP4.0H-M0c-SW	Modbus RTU		5-pin plug		
CP4.0N-M0c-SW					

Spare parts:

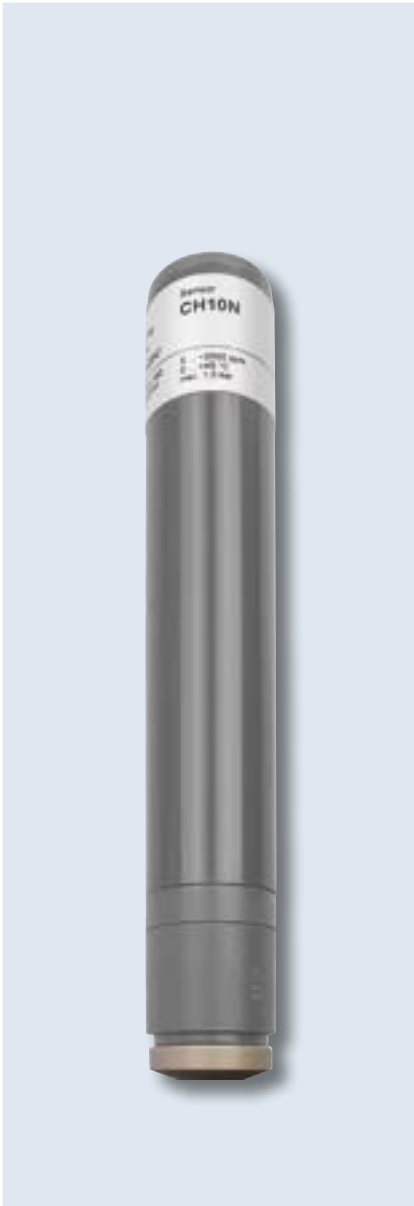
Spare parts:	for sensor type:	Item number:
Membrane cap M48.4S	CP4.0-SW all types/brine	9026026
Electrolyte ECP1.4/GEL for brine	CP4.0 all types/brine	9026074

Accessories:

Type:	for sensor type:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 – 20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and mA Tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH	90231000

1.3.9.

DOSA*Sens* Chlorine sensor CH10



Sensor for the *measurement of high chlorine concentrations* up to 2000 ppm. Chlorine sensor with membrane-covered, amperometric 2-electrode system. The sensor is pH-dependent. The membrane system is mechanically robust. The membrane system is largely surfactant-resistant.

Product description:

- Measurand(s): free chlorine, pH-dependent
- Calibration:
 - at the controller, via analytical chlorine determination by DPD-1 method (up to 10 ppm)
 - Iodometrie (up to 200 ppm with photometer)
 - Iodometrie (up to 2000 ppm Titration)
- Interferences: ClO₂, O₃, peracetic acid
- pH range: 5–8
- Pressure range:
 - Operation without circlip: 0 ... 0.5 bar, no pressure surges and/or vibrations
 - Operation with circlip: 0 ... 1.0 bar, no pressure surges and/or vibrations
- Temperature range: 0–45 °C (not any ice crystal in water)
- Integrated automatic temperature compensation
 - Response time: T₉₀ approx. 8 min.
 - avoid temperature jumps, max. temperature change 5°/h
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 15–30 l/h, low flow-dependence
- Shaft length: standard 175 mm, up to 220 mm (mA-Version)
- Connection: 4-pole plug, M12-male, mA-Version 2-pole terminal
- Material: PVC-U, semipermeable membrane

2

Areas of application:

- Water with high chlorine concentrations, process water, constant pH level, surfactants are tolerated

Scope of supply:

- DOSA*Sens* CH10 sensor, membrane cap, electrolyte, operating manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CH10-2000	5–2000	1	0 to -2000 mV 1 kΩ	±5 to ±15 VDC ca. 10–mA	3226720
CH10-2000-An	20–2000				3226700
CH10-2000-M0c	20–2000		Modbus RTU	20–56 mA	3226715
CH10MA2000	20–2000		4–20 mA	12–30 VDC	3226705
CH10MA2000-M12	20–2000				3226710

Subject to technical modifications and printing errors. Images may vary slightly from actual product..
22.04.2021

Additional technical data:

Type:	Slope:	Connection	Special characteristics:
CH10-2000	-1 mV/ppm	4-pole plug	Connection only to controller with galvanic separate power supply.
CH10-2000-An	-1 mV/ppm		-
CH10-2000-M0c	Modbus RTU	5-pole flange plug	-
CH10MA2000	0,008 mA/ppm	2-pole terminal	Connection only to controller with galvanic separate power supply.
CH10MA2000-M12		M12 plug	-

Spare parts:

Spare parts:	for sensor type:	Item number:
Membrane cap M10.1D-S, with G-holder for CH10	CH10 all types	9026027
Electrolyte ECH10/W, 100 ml	CH10 all types	9026076

Accessories:

Type:	for sensor typer:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 – 20 mA, current sensor	all sensors with mA signal	90249000
mV simulator und mA Tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH, chlorine dioxide	90231000

1.3.10.

DOSA*Sens* Chlorine sensor ILS2

Sensor for the measurement of free, inorganic chlorine with open measuring cell. Especially for installation in the direct fitting **DOSA*Sens* ILS**.



Product description:

- Measurand(s): free chlorine made of chlorine bleaching or chlorine gas and electrolytically generated chlorine
- Calibration: at the controller, via analytical determination by DPD-1 method
- Interferences: ozone, chlorine dioxide, chlorite are also registered
- pH range: 5–9
- Pressure range: 0–8 bar
- Temperature range: 0–50 °C
- Integrated automatic temperature compensation
- Response time: T_{90} approx. 30 s
- Absence of the disinfectant: max. 24 h
- Flow rate: unlimited
- Shaft length: standard 175 mm
- Connection: M12 male
- Material: PVC-U

2

Areas of application:

- Fresh water, especially drinking water, up to max. 50 °C.

Scope of supply:

- **DOSA*Sens* ILS2**, sensor, electrolyte hull, electrolyte, operating manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal: mA	Power supply:	Item number:
ILS2MA5-CL-M12	0.03–approx. 5.00	0.01	4 ... 20	±12 to ±30 VDC R_i 500 - 900 Ω	3526020

Additional technical data:

Type:	Slope:	Connection:	Special characteristics:
ILS2MA5-CL-M12	3.2 mA/ppm	M12 male	Especially for installation in the direct fitting DOSA<i>Sens</i> ILS .

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
05.02.2020

Spare parts:

Spare parts:	for sensor type:	Item number:
Abrasive paper S3	ILS2 all types	9026103
Electrolyte hull PVC	ILS2 all types	9026154
Elektrolyt EAS1/Gel	ILS2 alle Typen	9026066

Accessories:

Type:	for sensor type:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 – 20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and mA Tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH	90231000

1.3.11.

DOSASens Chlorine sensor CN1.1

Checks for the absence of chlorine in drinking water in order to protect equipment.
Operating period in water without chlorine maximum four weeks.

Membrane-covered, amperometric potentiostatic 3-electrode system with integrated electronics.

Product description:

- Masurand(s): NaOCl (sodium hypochlorite), Cl₂ (chlorine gas), electrolytically generated chlorine
- Examination: by means of analytic determination of chlorine by DPD 1 method
- Calibrate the sensor with chlorinated water, establish a separate measurement circuit if required
- Interferences: ClO₂, O₃, bound chlorine may increase the value measured, reducing agent may cause slope loss
- Resolution: 0.001 ppm
- pH range: 6.5– 9
- Pressure range:
 - Operation without circlip: 0 ... 0.5 bar, no pressure surges and/or vibrations
 - Operation with circlip: 0 ... 1.0 bar, no pressure surges and/or vibrations
- Temperature range: 0–40 °C, (not any ice cristall in water)
- Integrated automatic temperature compensation
- Response time: T₉₀ approx. 2 min
- Absence of the disinfectant: max. 4 weeks
- Flow rate: approx. 15–30 l/h, low flow dependence
- Shaft length: standard 195 mm, and 205 mm (Modbus version)
- Connection: standard 4-pole plug, Modbus RTU M12 male
- Material: PVC-U, PEEK, stainless steel 1.4571, microporous membrane

2



Areas of application:

- Check for the absence of chlorine in water.

Scope of supply:

- DOSASens CN1.1 sensor, membrane cap, electrolyte, instruction manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CN1.1H-An	0.005–2.00	0.001	0 to -2000 mV	9–30 VDC approx. 20 to 56 mA	3326620
CN1.1N-An	0.05–20.00	0.1	(max. -2500 mV)/1 kΩ		3326621
CN1.1H-M0c	0.005–2.00	0.001	Modbus RTU		3326610
CN1.1N-M0c	0.05–20.00				3326612

Additional technical data:

Type:	Slope:	Connection:	Special characteristics:
CN1.1H-An	-1000 mV/ppm	4-pole plug	
CN1.1N-An	-100 mV/ppm		
CN1.1H-M0c	Modbus RTU	M12 male	
CN1.1H-M0c			

Spare parts:

Spare parts:	for sensor type:	Item number:
Membrane cap M48.2G	CN1.1 (all types)	9026021
Electrolyte EMST1/GEL	CN1.1 (all types)	9026053

Accessories:

Type:	for sensor type:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 – 20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and mA Tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH	90231000

Sensor for the measurement of chlorine dioxide. Membrane-covered, amperometric 2-electrode system.



Product description:

- Measurand(s): chlorine dioxide
- Calibration: at the controller, am Controller, via analytical chlorine-dioxide determination by DPD-1 method
- Interferences:
 - Cl₂ is being registered with factor 0.35 of ist measured value
 - O₃ is also registered
- pH range: 1 – 12, or the beginning of decomposition of chlorine dioxide at/over pH 12
- Pressure range:
 - Operation without circlip: 0 ... 0.5 bar, no pressure surges and/or vibrations
 - Operation with circlip: 0 ... 1.0 bar, no pressure surges and/or vibrations
- Temperature range: 0 – 45 °C
(no ice crystals in measurement water)
- Integrated automatic temperature compensation
(Temperature jumps must be avoided)
- Response time: T₉₀ approx. 15 s
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 15 – 30 l/h, low flow-dependence
- Shaft length: standard 175 mm, and up to 220 mm in length (mA-Version),
- Connection: standard 4-pole plug; for mA-version 2-pole terminal, M12 male or Modbus RTU with M12 male
- Material: PVC-U, semipermeable membrane

2

Areas of application:

- Swimming pool water, drinking water, service water, process water
(surfactants must not be contained).

Scope of supply:

- DOSA*Sens* CD4.2 sensor, membrane cap, electrolyte, instruction manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CD4.2H	0.005–2.000	0.001	0 to -2000 mV 1 kΩ	±5 to ±15 VDC 10 mA	3326450
CD4.2N	0.05–20.00	0.01			3326451
CD4.2H-An	0.005–2.000	0.001	Modbus RTU	9–30 VDC 20–56 mA	3326455
CD4.2N-An	0.05–20.00	0.01			3326456
CD4.2H-M0c	0.005–2.000	0.001	4–20 mA	12–30 VDC R _L = 50–900 Ω	3326465
CD4.2N-M0c	0.05–20.00	0.01			3326466
CD4.2MA0,5	0.005–0.500	0.001	3326480		
CD4.2MA2	0.05–2.00	0.01	3326481		
CD4.2MA5	0.05–5.00	0.01	3326482		
CD4.2MA10	0.05–10.00	0.01	3326483		
CD4.2MA20	0.05–20.00	0.01	3326484		
CD4.2MA0,5-M12	0.005–0.500	0.001	3326490		
CD4.2MA2-M12	0.05–2.00	0.01	3326491		
CD4.2MA5-M12	0.05–5.00	0.01	3326492		
CD4.2MA10-M12	0.05–10.00	0.01	3326493		
CD4.2MA20-M12	0.05–20.00	0.01	3326494		

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
14.04.2021

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CD7MA20	0– 20.00	0.01	4– 20 mA	12– 30 VDC R _L = 50– 900 Ω	3326086
CD7MA200	0.5– 200.00	0.1			3326104
CD7MA0.5-M12	0– 0.50	0.01			3226610
CD7MA2-M12	0– 2.00	0.01			3226611
CD7MA5-M12	0– 5.00	0.01			3226612
CD7MA10-M12	0– 10.00	0.01			3226613
CD7MA20-M12	0– 20.00	0.01			3226614
CD7MA200-M12	0.5– 200.00	0.1			3226615

Additional technical data:

Type:	Slope:	Connection:	Special characteristics:
CD7H	-1000 mV/ppm	4-pin plug	Connection only to a controller with galvanically separated power supply.
CD7N	-100 mV/ppm		
CD7L	-10 mV/ppm		
CD7H-An	-1000 mV/ppm		
CD7N-An	-100 mV/ppm		
CD7L-An	-10 mV/ppm		
CD7H-M0c	Modbus RTU	M12 female	Connection only to a controller with galvanically separated power supply.
CD7N-M0c			
CD7L-M0c			
CD7MA0.5	32.0 mA/ppm	2 pole terminal	
CD7MA2	8.0 mA/ppm		
CD7MA5	3.2 mA/ppm		
CD7MA10	1.6 mA/ppm		
CD7MA20	0.8 mA/ppm		
CD7MA200	0.08 mA/ppm	M12 female	
CD7MA0.5-M12	32.0 mA/ppm		
CD7MA2-M12	8.0 mA/ppm		
CD7MA5-M12	3.2 mA/ppm		
CD7MA10-M12	1.6 mA/ppm		
CD7MA20-M12	0.8 mA/ppm		
CD7MA200-M12	0.08 mA/ppm		

Spare parts:

Spare parts:	for sensor type:	Item number:
Membrane cap M7.1N	CD7 (all types except CD7L + CD7 MA200)	9026010
Membrane cap M7.1L	CD7L + CD7MA200	9026012
Electrolyte ECD4 - ECD7/W	CD7 (all types)	9026073

Accessories:

Type:	for sensor type:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4– 20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and mA Tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH, chlorine dioxide	90231060

1.3.13.

DOSASens Chlorine dioxide sensor CD10.1

Sensor for the measurement of chlorine dioxide. Membrane-covered, amperometric, 2-electrode measuring system. The membrane system is mechanically robust and it is largely tensile resistant.



Product description:

- Measurand(s): chlorine dioxide
- Calibration: at the controller, via analytical chlorine dioxide determination by DPD-1 method
- Interferences:
 - O₃ is measured with factor 25 to ClO₂
 - Cl₂ is factor 0,1
- pH 1 – pH 12 or beginning decay of chlorine dioxide from/above pH 12
- Pressure range:
 - Operation without circlip: 0 ... 0.5 bar, no pressure surges and/or vibrations
 - Operation with circlip: 0 ... 1.0 bar, no pressure surges and/or vibrations
- Temperature range: 0– 50 °C (not any ice crystal in water)
- Integrated automatic temperature compensation, 5 °C per hour, Temperature jumps are to be avoided
- Response time: T₉₀ approx. 60 s
- Absence of the disinfectant: max. 24 h
- Flow rate: ca. 15 – 30 l/h, low flow-dependence
- Shaft length: standard 175 mm, and up to 220 mm in length (in mA-Version)
- Connection: standard 4-pole plug; for mA-version 2-pole terminal, M12 male or Modbus RTU with M12 male
- Material: PVC-U, stainless steel 1.4571

2

Areas of application:

- All types of water treatment, including seawater (e.g. bottle washing machine, CIP system, rinser). The membrane system is mechanically robust and it is largely resistant to surfactants.

Scope of supply:

- DOSASens CD10.1 sensor, membrane cap, electrolyte, operating instructions

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CD10.1H	0.005 ... 2.00	0.001	0 ... -2000 mV 1 kΩ	±5 ... ±15 VDC 10 mA	3226400
CD10.1N	0.05 ... 20.00	0.01			3226401
CD10.1L	0.5 ... 200	0.1			3226402
CD10.1H-An	0.005 ... 2.00	0.001	Modbus RTU	9 ... 30 VDC 20 ... 56 mA	3226418
CD10.1N-An	0.05 ... 20.0	0.01			3226419
CD10.1L-An	0.5 ... 200	0.1			3226420
CD10.1H-M0c	0.005 ... 2.00	0.001	4 ... 20 mA	12 ... 30 VDC R _L = 50 ... 900 Ω	3226415
CD10.1N-M0c	0.05 ... 20.00	0.01			3226416
CD10.1L-M0c	0.5 ... 200	0.1			3226417
CD10.1MA0.5	0.005 ... 0.50	0.001	4 ... 20 mA	12 ... 30 VDC R _L = 50 ... 900 Ω	3226403
CD10.1MA2	0.005 ... 2.00	0.001			3226404
CD10.1MA5	0.05 ... 5.00	0.01			3226405
CD10.1MA10	0.05 ... 10.00	0.01			3226406

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
22.03.2021

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply	Item number:
CD10.1MA20	0.05 ... 20.00	0.01	4 ... 20 mA	12 ... 30 VDC $R_L = 50 \dots 900 \Omega$	3226407
CD10.1MA200	0.5 ... 200.00	0.1			3226408
CD10.1MA0.5-M12	0.005 ... 0.50	0.001			3226409
CD10.1MA2-M12	0.005 ... 2.00	0.001			3226410
CD10.1MA5-M12	0.05 ... 5.00	0.01			3226411
CD10.1MA10-M12	0.05 ... 10.00	0.01			3226412
CD10.1MA20-M12	0.05 ... 20.00	0.01			3226413
CD10.1MA200-M12	0.5 ... 200.00	0.1			3226414

Additional technical data:

Type:	Slope:	Connection:	Special characteristics:
CD10.1H	-1000 mV/ppm	4-pin plug	Connection only to a controller with galvanically separated power supply.
CD10.1N	-100 mV/ppm		
CD10.1L	-10 mV/ppm		
CD10.1H-An	-1000 mV/ppm		
CD10.1N-An	-100 mV/ppm		
CD10.1L-An	-10 mV/ppm		
CD10.1H-M0c	Modbus RTU	M12 female	Connection only to a controller with galvanically separated power supply.
CD10.1N-M0c			
CD10.1L-M0c			
CD10.1MA0.5	32,0 mA/ppm	2 pole terminal	
CD10.1MA2	8,0 mA/ppm		
CD10.1MA5	3,2 mA/ppm		
CD10.1MA10	1,6 mA/ppm		
CD10.1MA20	0,8 mA/ppm		
CD10.1MA200	0,08 mA/ppm		
CD10.1MA0.5-M12	32,0 mA/ppm	M12 female	
CD10.1MA2-M12	8,0 mA/ppm		
CD10.1MA5-M12	3,2 mA/ppm		
CD10.1MA10-M12	1,6 mA/ppm		
CD10.1MA20-M12	0,8 mA/ppm		
CD10.1MA200-M12	0,08 mA/ppm		

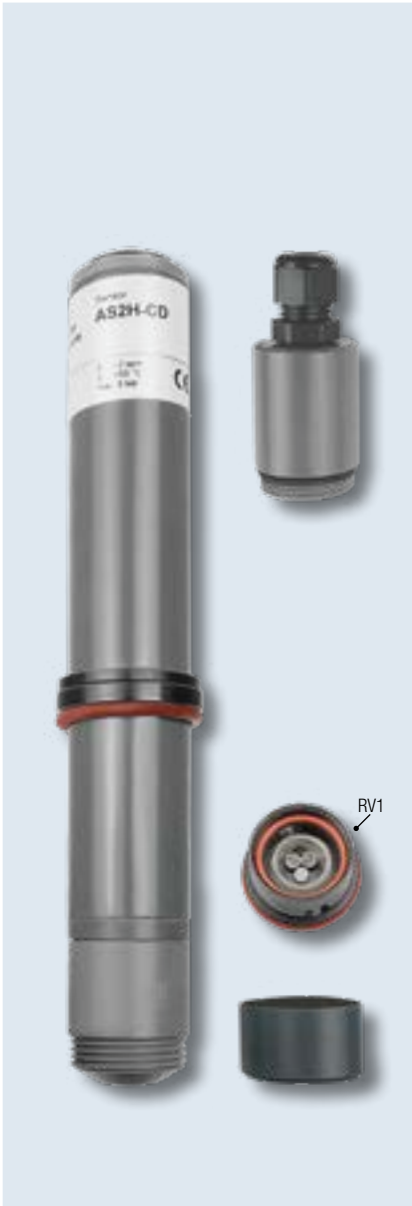
Spare parts:

Spare parts:	for sensor type:	Item number:
Membrane cap M10.3 N	CD10.1 all types	9026028
Electrolyt ECD4 – ECD7/W	CD10.1 all types	9026073

Accessories:

Type:	for sensor type:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 ... 20 mA, current sensor	all sensors with mA signal	90249000
mV simulator und mA tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH, chlorine dioxide	90231000

Sensor for the measurement of chlorine dioxide with open measuring cell. Optional with cleaning device.



Product description:

- Measurand(s): chlorine dioxide
- Calibration: at the controller, via analytical determination by DPD-1 method
- Interferences: ozone, chlorine, chlorite are registered with less than 2%
- pH range: 1 – 12, or the beginning decay of chlorine dioxide /over pH 12
- Pressure range:
 - Operation without circlip: 0–0.5 bar
 - Operation with circlip: 0–8.0 bar
- Temperature range:
 - 0–50 °C (AS2)
 - 0–70 °C (AS3)
- Automatic temperature compensation
- Response time: T_{90} approx. 30 s
- Absence of the disinfectant: max. 24 h
- Flow rate: at least 15 l/h (with RV1 increased at least 45 l/h)
- With the cleaning device (RV1) there is a restriction of the measuring range to 0,7 or 7 ppm
- Shaft length: standard 175 mm, and up to 220 mm in length (mA-Version)
- Connection: standard 4-pole plug; for mA-version 2-pole terminal, M12 male or Modbus RTU with M12 male
- Material: PVC-U (AS2), PEEK (AS3)

2

Areas of application:

- Drinking water, up to max. 70 °C.

Scope of supply:

- DOSA*Sens* AS2, AS3 chlorine dioxide sensor, electrolyte hull, electrolyte, operating manual

Ordering data:

Type: (up to 50°C)	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
AS2H-CD	0.005 – 2.00	0.001	0 to -2000 mV 1 kΩ	±5 to ±15 VDC 10 mA	3326154
AS2N-CD	0.03 – 20.00	0.01			3326150
AS2H-CD-An	0.005 – 2.00	0.001	Modbus RTU	9 – 30 VDC ca. 20 – 56 mA	3426800
AS2N-CD-An	0.03 – 20.00	0.01			3426801
AS2H-CD-M0c	0.005 – 2.00	0.001	4 to 20 mA	12 – 30 VDC $R_L = 50 – 900 \Omega$	3426820
AS2N-CD-M0c	0.03 – 20.00	0.01			3426821
AS2MA1-CD	0.03 – 1.00	0.01	4 to 20 mA	12 – 30 VDC $R_L = 50 – 900 \Omega$	3326151
AS2MA2-CD	0.03 – 2.00	0.01			3326152
AS2MA5-CD	0.03 – 5.00	0.01	4 to 20 mA	12 – 30 VDC $R_L = 50 – 900 \Omega$	3326153
AS2MA1-CD-M12	0.03 – 1.00	0.01			3426840
AS2MA2-CD-M12	0.03 – 2.00	0.01	4 to 20 mA	12 – 30 VDC $R_L = 50 – 900 \Omega$	3426841
AS2MA5-CD-M12	0.03 – 5.00	0.01			3426842

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
22.04.2021

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
AS3H-CD	0.005 – 2.00	0.001	0 to-2000 mV	±5 to ±15 VDC	3326164
AS3N-CD	0.03 – 20.00	0.01	1 kΩ	10 mA	3326160
AS3H-CD-An	0.005 – 2.00	0.001	0 to-2000 mV	9 – 30 VDC ca. 20 – 56 mA	3426850
AS3N-CD-An	0.03 – 20.00	0.01	1 kΩ		3426851
AS3H-CD-M0c	0.005 – 2.00	0.001	Modbus RTU		3426870
AS3N-CD-M0c	0.03 – 20.00	0.01			3426871
AS3MA1-CD	0.03 – 1.00	0.01	4 – 20 mA	12 ... 30 VDC R _L = 50 – 900 Ω	3326161
AS3MA2-CD	0.03 – 2.00	0.01			3326162
AS3MA5-CD	0.03 – 5.00	0.01			3326163
AS3MA1-CD-M12	0.03 – 1.00	0.01			3426890
AS3MA2-CD-M12	0.03 – 2.00	0.01			3426891
AS3MA5-CD-M12	0.03 – 5.00	0.01			3426892

Additional technical data:

Type:	Slope:	Connection:	Special characteristics:
AS2H-CD	-1000 mV/ppm	4-pin plug	Connection only to a controller with galvanically separated power supply.
AS2N-CD	-100 mV/ppm		
AS2H-CD-An	-1000 mV/ppm		
AS2N-CD-An	-100 mV/ppm		
AS2H-CD-M0c	Modbus RTU	M12 female	-
AS2N-CD-M0c			
AS2MA1-CD	16 mA/ppm	2 pole terminal	Connection only to a controller with galvanically separated power supply.
AS2MA2-CD	8.0 mA/ppm		
AS2MA5-CD	3.2 mA/ppm	M12 female	
AS2MA1-CD-M12	16 mA/ppm		
AS2MA2-CD-M12	8.0 mA/ppm		
AS2MA5-CD-M12	3.2 mA/ppm		
AS3H-CD	-1000 mV/ppm	4-pin plug	-
AS3N-CD	-100 mV/ppm		
AS3H-CD-An	-1000 mV/ppm		
AS3N-CD-An	-100 mV/ppm		
AS3H-CD-M0c	Modbus RTU	M12 female	-
AS3N-CD-M0c			
AS3MA1-CD	16 mA/ppm	2 pole terminal	Connection only to a controller with galvanically separated power supply.
AS3MA2-CD	8.0 mA/ppm		
AS3MA5-CD	3.2 mA/ppm	M12 female	
AS3MA1-CD-M12	16 mA/ppm		
AS3MA2-CD-M12	8.0 mA/ppm		
AS3MA5-CD-M12	3.2 mA/ppm		

Spare parts:

Spare parts:	for sensor type:	Item number:
Abrasive paper S3	AS all types	9026103
Electrolyte hull PVC	AS2 all types	9026154
Electrolyte hull PEEK	AS3 all types	9026220
Electrolyte EAS1/Gel	AS all types	9026066

Accessories:

Type:	for sensor type:	Item number:
Cleaning device RV1	AS (all types), *RV1: restriction of the measuring range to 0,7 or 7 ppm	9026180
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 – 20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and mA Tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH, chlorine dioxide	90231060

1.3.15.

DOSASens Chlorine dioxide sensor ILS2

Sensor for the measurement of chlorine dioxide with open measuring cell. Especially for installation in the direct fitting **DOSASens ILS**.



Product description:

- Measurand(s): chlorine dioxide
- Calibration: at the controller, via analytical determination by DPD-1 method
- Interferences:
 - ozone, chlorine, chlorite are registered with less than 2%
- pH range: 1 – 9
- Pressure range: 0 – 8 bar
- Temperature range: 0 – 50 °C
- Automatic temperature compensation
- Response time: T_{90} approx. 30 s
- Absence of the disinfectant: max. 24 h
- Flow rate: unlimited
- Shaft length: standard 175 mm
- Connection: M12
- Material: PVC-U

2

Areas of application:

- Fresh water, especially drinking water, up to max. 50 °C.

Scope of supply:

- **DOSASens ILS2** chlorine dioxide sensor, electrolyte hull, electrolyte, operating manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal: mA	Power supply:	Item number:
ILS2MA5-CD-M12	0.03 – 5.00	0.01	4 – 20	± 12 to ± 30 VDC R_L 500 – 900 Ω	3526070

Additional technical data:

Type:	Slope:	Connection:	Special characteristics:
ILS2MA5-CD-M12	3.2 mA/ppm	M12	Especially for installation in the direct fitting DOSASens ILS .

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
05.02.2020

Spare parts:

Spare parts:	for sensor type:	Item number:
Abrasive paper S3	ILS2 all types	9026103
Electrolyte hull PVC	ILS2 all types	9026154
Electrolyte EAS1/Gel	ILS2 all types	9026066

Accessories:

Type:	for sensor type:	Item number:
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000 mV	9026205
Sensor simulator 4 – 20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and mA Tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH, chlorine dioxide	90231060

1.3.16.

DOSASens Open amperometric sensor KC

Sensor for the measurement of the free inorganic chlorine, chlorine dioxide or ozone.



Product description:

- Measurand(s): Natriumhypochlorit (NaOCl), Calciumhypochlorit (Ca(OCl)₂), chlorine gas (Cl₂), electrolytically produced chlorine, chlorine dioxide, ozone
- pH range: 5–9
- Pressure range: 6 bar
- Flow rate: 30–40 l/h (min.)
- Shaft length: 120 mm (12 mm Ø)
- Material: glass body with gold electrode

2

Areas of application:

- Drink-, service- and industrial water, legionella bacteria.

Scope of supply:

- **DOSASens KC** open amperometric sensor

Ordering data:

Type:	Measuring range: mg/l	Resolution: ppm	Recommended controller/ measuring instrument:	Item number:
KCL (free chlorine)	0.01 – 20.00	0.01	DOSAControl DCW 105	2189200
KCLD (chlorine dioxide)	0.01 – 4.00			2189201
KCOZ (ozone)				2189202

Additional technical data:

Type:	Temperatur range: °C	Cable connection:	Connection: thread	Particular:
KCL (free chlorine)	5–70	5-pin screwed connectors	PG 13,5	In conjunction with a DCW 105, it is possible to run the sensor with a automatically cleaning function.
KCLD (chlorine dioxide)				
KCOZ (ozone)				

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
07.09.2017

1.3.17.

DOSA*Sens* Chlorite sensor **MST1**

Sensor for the measurement of chlorite. Membrane-covered, amperometric 3-electrode measuring system.



Product description:

- Measurand(s): Chlorite from acid/chlorite process, chlorine/chlorite-process chlorite/oxidant-process
- Calibration: at the controller, via analytical determination of chlorite
- Interferences: Mn_2^+ , nitrite, Fe_2^+
- No cross-interference to chlorine dioxide, chlorine and chlorate
- pH range: 6 ... 9
- Pressure range:
 - Operation without circlip: 0 ... 0.5 bar, no pressure surges and/or vibrations
 - Operation with circlip: 0 ... 5.0 bar, without outgassing, no pressure surges and/or vibrations
- Temperature range: 0 ... 40 °C (not any ice crystal in water)
- Integrated automatic temperature compensation
- Response time: T_{90} approx. 1 min.
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 15 ... 30 l/h
- Shaft length: standard 175 mm, and up to 220 mm in length (mA-Version)
- Connection: standard 4-pole plug or Modbus RTU with M12 male
- Material: PVC, Peek, stainless steel 1.4571, membrane

2

Areas of application:

- Drinking water, swimming pool water, service water, process water.

Scope of supply:

- DOSA*Sens* **MST1** sensor, membrane cap, electrolyte, operating manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
MST1H-An	0.05–2.00	0.001	0 to -2000 mV (max. -2500 mV), 1 k Ω	9–30 VDC approx. 20–56 mA	3326420
MST1N-An		0.01			3326421
MST1H-M0c		0.001	Modbus RTU		3326410
MST1N-M0c		0.01			3326411
MST1MA2	0.005–2.00	0.01	4–20 mA	12–30 VDC $R_L = 50–900 \Omega$	3326440
MST1MA2-M12	0.05–2.00	0.001			3326441

Additional technical data:

Type:	Slope:	Cable connection:	Special characteristics:
MST1H-An	-100 mV/ppm	4-pole plug	
MST1N-An			
MST1H-M0c	Modbus RTU	M12 male	
MST1N-M0c			
MST1MA2	8.0 mA/ppm	two pole terminal	
MST1MA2-M12			

2

Spare parts:

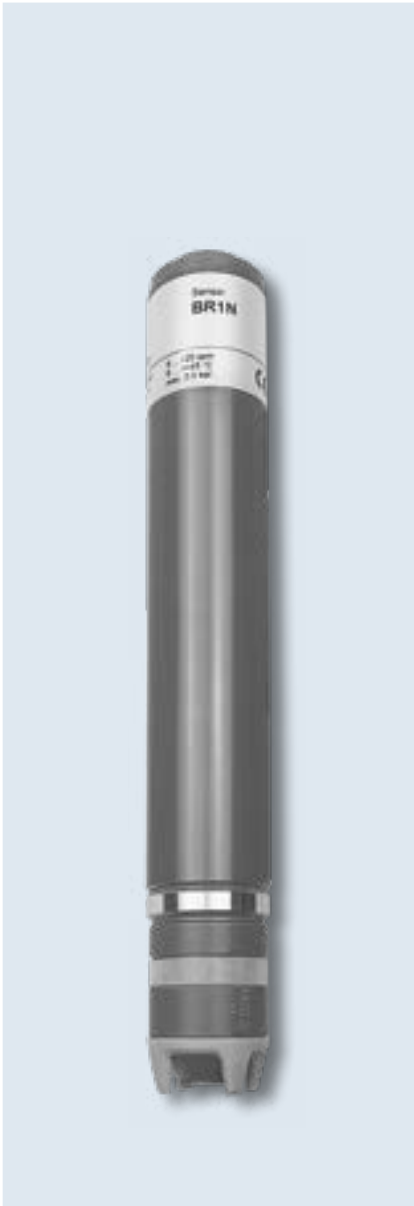
Spare parts:	for sensor type:	Item number:
Membrane cap M48.2	MST1 (all types)	9026020
Electrolyte EMST1/Gel	MST1 (all types)	9026053

Accessories:

Type:	for sensor type:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 – 20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and mA Tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH, chlorite	90231010

1.3.18.

DOSASens Bromine sensor BR1



Membrane-covered, amperometric potentiostatic 3-electrode system. Detects free bromine as hypobromous acid and BCDMH, also in sea water.

Product description:

- Measurand(s): free bromine, 1-bromo-3-chloro-5,5-dimethyl-hydantoin BCDMH), hypobromous acid HOBr
- Calibration:
 - at the controller
 - by means of analytic bromine determination
 - depending on the brominating agent
 - free bromine: DPD1 method
 - BCDMH: DPD4 method
- Interferences: Cl₂, ClO₂, O₃, are measured as well
- pH range: 6.5–9.5, greatly reduced pH dependence
- Pressure range:
 - Operation without circlip: 0–0.5 bar, no pressure surges and/or vibrations
 - Operation with circlip: 0–1.0 bar, no pressure surges and/or vibrations
- Temperature range: 0–45 °C
- Integrated automatic temperature compensation
- Response time: T₉₀ approx. 2 min
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 15–30 l/h
- Shaft length: standard 175 mm, and up to 220 mm in length (mA-Version)
- Connection: standard 4-pole plug, for mA-version 2-pole terminal, M12 male or Modbus RTU with M12 male
- Material: PVC, Peek, stainless steel 1.4571, microporous hydrophilic membrane

2

Areas of application:

- Drinking-, pool-, industrial-, process- and sea water.

Scope of supply:

- DOSASens BR1 sensor, membrane cap, electrolyte, instruction manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
BR1H	0.005–2.000	0.001	0 to -2000 mV	±5 to +15 VDC 10 mA	3326526
BR1N	0.05–20.00	0.01	1 kΩ		3326525
BR1H-An	0.005–2.000	0.001	0 to -2000 mV (max. 2.500 mV), 1 kΩ	9–30 VDC, approx. 20–56 mA	3326502
BR1N-An	0.005–2.000	0.001			3326503
BR1H-M0c	0.005–2.000	0.001	Modbus RTU		3326531
BR1N-M0c	0.05–20.00	0.01			3326530
BR1MA-2	0.05–2.00	0.1	4–20 mA	12–30 VDC R _L = 50 Ω (12 V) to 900 Ω (30 V)	3326505
BR1MA-5	0.05–5.00				3326515
BR1MA-10	0.05–10.00				3326520
BR1MA-2-M12	0.05–2.00	0.1		12–30 VDC R _L = 50–900 Ω	3326540
BR1MA-5-M12	0.05–5.00				3326541
BR1MA-10-M12	0.05–10.00				3326542

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
16.04.2021

Additional technical data:

Type:	Slope:	Cable Connection:	Special characteristics:
BR1H	-1000 mV/ppm	4-pole plug	Connection only to a controller with galvanically separated power supply.
BR1N	-100 mV/ppm		
BR1H-An	-1000 mV/ppm		
BR1N-An	-100 mV/ppm		
BR1H-M0c	Modbus RTU	M12 male	-
BR1N-M0c			
BR1MA-2	8.0 mA/ppm	2-pole terminal	Connection only to a controller with galvanically separated power supply.
BR1MA-5	3.2 mA/ppm		
BR1MA-10	1.6 mA/ppm		
BR1MA-2-M12	8.0 mA/ppm	M12 male	
BR1MA-5-M12	3.2 mA/ppm		
BR1MA-10-M12	1.6 mA/ppm		

Spare parts:

Spare parts:	for sensor type:	Item number:
Membrane cap M48.2	BR1 all types	9026020
Electrolyte ECP1.4 Gel	BR1 for measurement with / without salts <1 g/l in the water (all types)	9026074

Accessories:

Type:	for sensor type:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 – 20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and mA Tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH, bromine	90231020

Ozone sensor with membrane-covered, amperometric 2-electrode system. Sensor for the measurement of dissolved ozone in water.



Product description:

- Measurand: ozone
- Calibration: at the controller, analytical determination by DPD-method
- Interferences:
 - Cl₂ is measured with factor 0.03 of its measuring value
 - ClO₂ is measured with factor 0.7 of its measuring value
- pH range: 2–11
- Pressure range:
 - Operation without circlip: 0–0.5 bar, no pressure surges and/or vibrations
 - Operation with circlip: 0–1.0 bar, no pressure surges and/or vibrations
- Temperature range: 0–45 °C (no ice crystals in measurement water)
- Integrated automatic temperature compensation
- Response time: T₉₀ approx. 15 sec.
- Flow rate: approx. 15–30 l/h, low flow-dependence
- Absence of the disinfectant: max. 24 h
- Shaft length: standard 175 mm, and up to 220 mm in length (mA-Version)
- Connection: standard 4-pole plug; for mA-version 2-pole terminal, M12 male or Modbus RTU with M12 male
- Material: PVC, semipermeable membrane

2

Areas of application:

- Swimming pool, drinking, service, process water, surfactants must not be contained.

Scope of supply:

- DOSASens OZ1.2 sensor, membrane cap, electrolyte, instruction manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
OZ1.2H	0.005–2.00	0.001	0 to -2000 mV 1 kΩ	±5 to ±15 VDC 10 mA	3426540
OZ1.2N	0.05–20.00	0.01			3426541
OZ1.2H-An	0.005–2.00	0.001			3426480
OZ1.2N-An	0.05–20.00	0.01	Modbus RTU	9–30 VDC 20–56 mA	3426481
OZ1.2H-M0c	0.005–2.00	0.001			3426530
OZ1.2N-M0c	0.05–20.00	0.01	4–20 mA	12–30 VDC R _L = 50 to 900 Ω	3426531
OZ1.2MA0,5	0.001–0.50	0.001			3426550
OZ1.2MA2	0.01–2.00	0.01			3426551
OZ1.2MA5	0.01–5.00	0.01			3426552
OZ1.2MA10	0.01–10.00	0.01			3426553
OZ1.2MA20	0.01–20.00	0.01			3426554
OZ1.2MA0,5-M12	0.001–0.50	0.001			3426520

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
15.04.2021

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
OZ1.2MA2-M12	0.01 – 2.00	0.01	4–20 mA	12–30 VDC R _L = 50–900 Ω	3426521
OZ1.2MA5-M12	0.01 – 5.00	0.01			3426522
OZ1.2MA10-M12	0.01 – 10.00	0.01			3426523
OZ1.2MA20-M12	0.01 – 20.00	0.01			3426524

Additional technical data:

Type:	Slope:	Cable Connection:	Special characteristics:
OZ1.2H	-1000 mV/ppm	4-pin plug	Connection only to a controller with galvanically separated power supply.
OZ1.2N	-100 mV/ppm		
OZ1.2H-An	-1000 mV/ppm		
OZ1.2N-An	-100 mV/ppm		
OZ1.2H-M0c	Modbus RTU	M12 female	Connection only to a controller with galvanically separated power supply.
OZ1.2N-M0c			
OZ1.2MA0.5	32.0 mA/ppm	2 pole terminal	
OZ1.2MA2	8.0 mA/ppm		
OZ1.2MA5	3.2 mA/ppm		
OZ1.2MA10	1.6 mA/ppm		
OZ1.2MA20	0.8 mA/ppm		
OZ1.2MA0.5-M12	32.0 mA/ppm	M12 female	
OZ1.2MA2-M12	8.0 mA/ppm		
OZ1.2MA5-M12	3.2 mA/ppm		
OZ1.2MA10-M12	1.6 mA/ppm		
OZ1.2MA20-M12	0.8 mA/ppm		

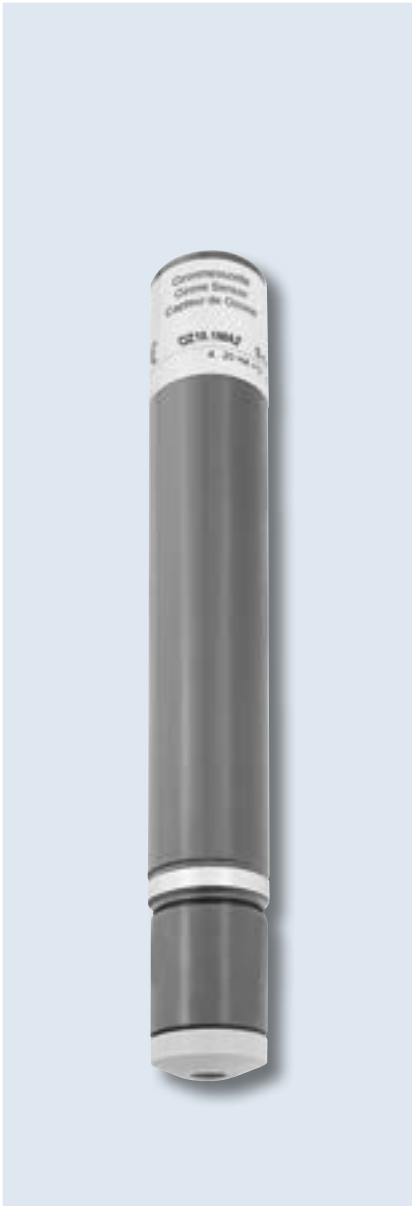
Spare parts:

Spare parts:	for sensor type:	Item number:
Membrane cap M20.2	OZ1.2 all types	9026001
Electrolyte EOZ1	OZ1.2 all types	9026054

Accessories:

Type:	for sensor type:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 – 20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and mA Tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH, ozone	90231030

Ozone sensor with membrane-covered, amperometric 2-electrode system. Sensor for the measurement of dissolved ozone in water.



Product description:

- Calibration: at the controller, analytical determination by DPD-method (DPD-4 method) when used in seawater the DPD-4 method (DPD-1 + DPD-3) is not selective for ozone.
- Interferences:
 - Cl₂ on OZ10.1H → increase of measuring value by 1.5%
 - Cl₂ on OZ10.1N → negligible
 - ClO₂ on OZ10.1N → increase of measuring value by 6.0%
- pH range: 4–9
- ressure range:
 - Operation without circlip: 0–0.5 bar, no pressure surges and/or vibrations
 - Operation with circlip: 0–1.0 bar, no pressure surges and/or vibrations
- Temperature range: 0– 45 °C
- Integrated automatic temperature compensation
- Response time: T₉₀ approx. 8 min., Temperature jumps are to be avoided
- short run-in time
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 15–30 l/h, low flow-dependence
- high durability of the zero point, thus increased service life
- hohe Signalstabilität bei Druckschwankungen und Vibrationen
- Shaft length: Standard 175 mm, and up to 220 mm (mA-Version)
- Connection: standard 4-pole plug; mA-Version 2-pole terminal, M12 male or Modbus RTU witch M12 male
- Material: PVC-U, stainless steel 1.4571

2

Areas of application:

- Fresh water, fully desalinated water, reverse osmosis water, seawater, the membrane system is largely tenside resistant and mechanically robust.

Scope of supply:

- DOSA*Sens* OZ10.1 sensor, membrane cap, electrolyte, operating instructions

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
OZ10.1H	0.005–2.000	0.01	0 to -2000 mV 1 kΩ	±5 to ±15 VDC 10 mA	3226500
OZ10.1N	0.05–20.00	0.01			3226501
OZ10.1H-An	0.005–2.000	0.01		9–30 VDC 20–56 mA	3226505
OZ10.1N-An	0.05–20.00	0.01	3226506		
OZ10.1H-M0c	0.005–2.000	0.001	Modbus RTU	9–30 VDC 20–56 mA	3226510
OZ10.1N-M0c	0.05–20.00	0.01			3226511
OZ10.1MA0.5	0.005–0.500	0.001	4–20 mA	12–30 VDC R _L = 50 to 900 Ω	3226515
OZ10.1MA2	0.005–2.00	0.001			3226516
OZ10.1MA5	0.05–5.00	0.01			3226517
OZ10.1MA10	0.05–10.00	0.01			3226518
OZ10.1MA20	0.05–20.00	0.01			3226519
OZ10.1MA0.5-M12	0.005–0.500	0.001			3226520

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
05.05.2021

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
OZ10.1MA2-M12	0.005–2.00	0.01	4–20 mA	12–30 VDC $R_L = 50–900 \Omega$	3226521
OZ10.1MA5-M12	0.05–5.00				3226522
OZ10.1MA10-M12	0.05–10.00				3226523
OZ10.1MA20-M12	0.05–20.00				3226524

Additional technical data:

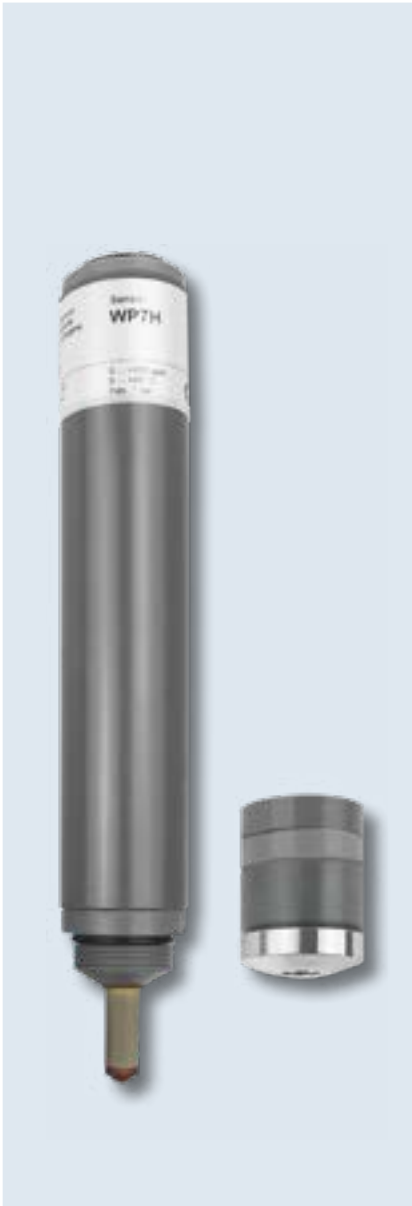
Type:	Slope:	Cable Connection:	Special characteristics:	
OZ10.1H	-1000 mV/ppm	4-pole plug	Connection only to a controller with galvanically separated power supply.	
OZ10.1N	-100 mV/ppm			
OZ10.1H-An	-1000 mV/ppm			
OZ10.1N-An	-100 mV/ppm			
OZ10.1H-M0c	Modbus RTU	M12 male	Connection only to a controller with galvanically separated power supply.	
OZ10.1N-M0c				
OZ10.1MA0.5	32.0 mA/ppm	2-pole terminal		
OZ10.1MA2				8.0 mA/ppm
OZ10.1MA5				3.2 mA/ppm
OZ10.1MA10				1.6 mA/ppm
OZ10.1MA20	0.8 mA/ppm	M12-plug		
OZ10.1MA0.5-M12	32.0 mA/ppm			
OZ10.1MA2-M12	8.0 mA/ppm			
OZ10.1MA5-M12	3.2 mA/ppm			
OZ10.1MA10-M12	1.6 mA/ppm			
OZ10.1MA20-M12	0.8 mA/ppm			

Spare parts:

Spare parts:	for sensor type:	Item number:
Membrane cap M10.3N grey	OZ10.1 all types	9026028
Electrolyte EOZ7/W	OZ10 all types	9026049

Accessories:

Type:	for sensor type:	Item number:
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 – 20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and mA Tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH, ozone	90231030



Sensor for the measurement of hydrogen peroxide, with membrane-covered, amperometric 2-electrode system. Tensides are partially tolerated. The membrane system is mechanically robust.

Product description:

- Measurand(s): Hydrogen peroxide
- Calibration:
 - DIN 38409-15 "Determination of hydrogen peroxide"
 - ISO/DIS 7157 "Determination of hydrogen peroxide – titrimetric method"
- Interferences:
 - Cl₂ must not be existent
 - Peroxyacetic acid C₂H₄O₃ must not be existent
 - O₃ must not be existent
 - Sulfides must not be existent
 - Phenoles aquaous solution >3 % must not be existent
- pH range: 2–11
- Pressure range:
 - Operation without circlip: 0–0.5 bar, no pressure surges and/or vibrations
 - Operation with circlip: 0–1.0 bar, no pressure surges and/or vibrations
- Temperature range: 0– 45 °C, no ice crystals in the measuring water
- Itengrated automatic temperature compensation
- Response time: T₉₀ approx. 5– 10 min
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 15–30 l/h, low flow-dependence
- Shaft length: standard 175 mm, and up to 220 mm in length (mA-Version)
- Connection: standard 4-pole plug; M12 male, mA-version 2-pole terminal or M12 male
- Material: PVC-U, stainless steel 1.4571

2

Areas of application:

- All types of water treatment (e. g. CIP plant), including seawater
- Tensides are partially tolerated.

Scope of supply:

- DOSA*Sens* WP7 sensor, membrane cap, electrolyte, operating manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
WP7H	0.5–200	0.1	0 ... -2000 mV 1 kΩ	±5 ... ±15 VDC 10 mA	3326083
WP7N	5–2000	1.0			3326084
WP7H-An	0.5–200	0.1	Modbus RTU	9 ... 30 VDC 20 ... 56 mA	3226110
WP7N-An	5–2000	1.0			3226111
WP7H-M0c	0.5–200	0.1			3226130
WP7N- M0c	5–2000	1.0			3226131
WP7MA-CC	0.5–200	0.1	4 ... 20 mA	12 ... 30 VDC R _L = 50 ... 900 Ω	3326081
WP7MA-D	5–500	0.1			3326075
WP7MA-M	0–1000	1.0			3326099
WP7MA-MM	0–2000	1.0			3326074
WP7MA-XM	0.005–10000	10.0			3326072
WP7MA-CC-M12	0.5–200	0.1			3226100

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
26.04.2021

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
WP7MA-D-M12	5 – 500	0.1	4 – 20 mA	12 – 30 VDC $R_L = 50 – 900 \Omega$	3426421
WP7MA-M-M12	5 – 1000	1.0			3426422
WP7MA-MM-M12	5 – 2000	1.0			3426423
WP7MA-XM-M12	0.005 – 10000	10.0			3426424

Additional technical data:

Type:	Slope:	Cable Connection:	Special characteristics:
WP7H	-10 mV/ppm	4-pin plug	Connection only to a controller with galvanically separated power supply.
WP7N	-1 mV/ppm		
WP7H-An	-10 mV/ppm		
WP7N-An	-1 mV/ppm		
WP7H-M0c	-10 mV/ppm	M12 female	-
WP7N-M0c	-1 mV/ppm		
WP7MA-CC	0.08 mA/ppm	2-pole terminal	Connection only to a controller with galvanically separated power supply.
WP7MA-D	0.032 mA/ppm		
WP7MA-M	0.016 mA/ppm		
WP7MA-MM	0.008 mA/ppm		
WP7MA-XM	0.0016 mA/ppm		
WP7MA-CC-M12	0.08 mA/ppm	M12 female	
WP7MA-D-M12	0.032 mA/ppm		
WP7MA-M-M12	0.016 mA/ppm		
WP7MA-MM-M12	0.008 mA/ppm		
WP7MA-XM-M12	0.0016 mA/ppm		

Spare parts:

Spare parts:	for sensor type:	Item number:
Membrane cap M7.1N	WP7 (all types except WP7MA-XM, WP7MA-XM-M12)	9026010
Membrane cap M7.1D	WP7MA-XM, WP7MA-XM-M12	9026007
Electrolyte EWP7/W	WP7 all types	9026062

Accessories:

Type:	for sensor type:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 – 20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and mA Tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH, hydrogen peroxide	90231030

Sensor for the measurement of hydrogen peroxide – especially for high concentrations. Membrane-covered, amperometric 2-electrode system. The membrane system is mechanically robust. The membrane system is largely tensile resistant.



Product description:

- Measurand(s): hydrogen peroxide
- Calibration:
 - DIN 38409-15 “Determination of hydrogen peroxide”
 - ISO/DIS 7157 “Determination of hydrogen peroxide – titrimetric method”
- Interferences:
 - Cl₂ must not be existent
 - PES must not be existent
 - O₃ must not be existent
 - Sulfide must not be existent
- Phenoles aquaous solution >3 % must not be existent
- pH range: 2–11
- Pressure range:
 - Operation without circlip: 0–0.5 bar, no pressure surges and/or vibrations
 - Operation with circlip: 0–1.0 bar, no pressure surges and/or vibrations
- Temperature range: 5–45 °C
- Integrated automatic temperature compensation
- Response time: T₉₀ approx. 8 min
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 15–30 l/h, low flow-dependence,
- Shaft length: standard 175 mm, and up to 220 mm in length (mA-Version)
- Connection: standard 4-pole plug, for mA-version 2-pole terminal, M12 male or Modbus RTU with M12 male
- Material: PVC-U, stainless steel 1.4571

Areas of application:

- All types of water treatment, also sea water, surfactants are tolerated to the greatest possible extent.

Scope of supply:

- DOSA*Sens* WP10 sensor, membrane cap, electrolyte, operating manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
WP10H	0,5 ... 200	0,1 ppm	0 to -2000 mV 1 kΩ	±5 to ±15 V DC 10 mA	3326380
WP10N	5 ... 2000	1 ppm			3326383
WP10L	0,005 ... 20000	0,001 % (10 ppm)			3326381
WP10-20%	0,05 ... 200000	0,01% (100 ppm)			3326382
WP10H-An	0,5 ... 200	0,1 ppm	0 to -2000 mV (max -2500 mV) 1 kΩ	9–30 V DC 20–56 mA	3326304
WP10N-An	5 ... 2000	1 ppm			3326306
WP10L-An	0,005 ... 2 % (20000 ppm)	0,001 % (10 ppm)			3326300
WP10-20%-An	0,05 ... 20 % (200000 ppm)	0,01 % (100 ppm)			3326301
WP10H-M0c	0,5 ... 200	0,1	Modbus RTU		3326350
WP10N-M0c	5 ... 2000	1			3326353
WP10L-M0c	0,005 ... 2 % (20000 ppm)	0,001 % (10 ppm)			3326351
WP10-20%-M0c	0,05 ... 20 % (200000 ppm)	0,01 % (100 ppm)			3326352

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
29.04.2021

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
WP10MA-200	0,5 ... 200	0,1	4 – 20 mA	12 – 30 VDC R _L = 50 to 900 Ω	3326313
WP10MA-2000	5 ... 2000	1			3326314
WP10MA-2%	0,005 ... 2 % (20000 ppm)	0,001 % (10 ppm)			3326310
WP10MA-5%	0,05 ... 5 % (50000 ppm)	0,01 % (100 ppm)			3326311
WP10MA-10%	0,05 ... 10 % (100000 ppm)	0,01 % (100 ppm)			3326312
WP10MA-200-M12	0,5 ... 200	0,1			3326323
WP10MA-2000-M12	5 ... 2000	1			3326324
WP10MA-2%-M12	0,005 ... 2 % (20000 ppm)	0,001 % (10 ppm)			3326320
WP10MA-5%-M12	0,05 ... 5 % (50000 ppm)	0,01 % (100 ppm)			3326321
WP10MA-10%-M12	0,05 ... 10 % (100000 ppm)	0,01 % (100 ppm)			3326322

Additional technical data:

Type:	Slope:	Cable Connection:	Special characteristics:
WP10H	-10 mV/ppm	4-pin plug	Connection only to a controller with galvanically separated power supply.
WP10N	-1 mV/ppm		
WP10L	-1000 mV/% (-0.1 mV/ppm)		
WP10-10-20%	-100 mV/% (-0.01 mV/ppm)		
WP10H-An	-10 mV/ppm		
WP10N-An	-1 mV/ppm		
WP10L-An	-1000 mV/% (-0.1 mV/ppm)		
WP10-20%-An	-100 mV/% (-0.01 mV/ppm)		
WP10H-M0c	Modbus RTU	M12 female	Connection only to a controller with galvanically separated power supply.
WP10N-M0c			
WP10L-M0c			
WP10-20%-M0c			
WP10MA-200	2-pole terminal	2-pole terminal	
WP10MA-2000			
WP10MA-2%			
WP10MA-5%			
WP10MA-10%			
WP10MA-200-M12	M12 female	M12 female	
WP10MA-2000-M12			
WP10MA-2%-M12			
WP10MA-5%-M12			
WP10MA-10%-M12			

Spare parts:

Spare parts:	for sensor type:	Item number:
Membrane cap M10.1H + G	WP10H, WP10N, WP10MA-200, WP10MA2000 (all)	9026018
Membrane cap M10.1D + G	WP10L, WP10-20%, WP10MA-2%, WP10MA-5%, WP10MA-10%, WP10MA-20%; (all)	9026015
Electrolyte EWP7/W	WP10 all types	9026062

Accessories:

Type:	for sensor type:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 – 20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and mA Tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH, hydrogen peroxide	90231040

Sensor for the measurement of peracetic acid. Membrane-covered amperometric 2-electrode system. Surfactants and lead acids are tolerated.



Product description:

- Measurand(s): Peracetic acid
- Calibration:
 - DIN 38409-15 "Determination of hydrogen peroxide"
 - ISO/DIS 7157 "Determination of hydrogen peroxide – titrimetric method"
- Interferences:
 - ClO₂ increases the measuring value
 - H₂O₂ very low influence on the measuring value, reduces the PES signal
 - O₃ increases the measuring value greatly
- pH range: 1–6
- Pressure range:
 - Operation without circlip: 0–0.5 bar, no pressure surges and/or vibrations
 - Operation with circlip: 0–1.0 bar, no pressure surges and/or vibrations
- Temperature range: 0–60 °C
- Integrated automatic temperature compensation
- Run-in period at first start: 30–180 min
- Response time: T₉₀ approx. 3.5 min at 10 °C, approx. 45 s at 50 °C
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 15–30l/h, low flow-dependence
- Shaft length: standard 175 mm, and up to 220 mm in length (mA-Version)
- Connection: standard 4-pole plug; for mA-version 2-pole terminal, M12 male or Modbus RTU with M12 male
- Material: PEEK, stainless steel 1.4571

2

Areas of application:

- Drinking water, all types of water treatment (e.g. CIP-plant, rinser ...)
- Lead acids: up to 1% sulfur, saltpetre and phosphoric acid have no influence on the measuring results.
- Surfactants are tolerated.

Scope of supply:

- DOSA*Sens* P9.2 sensor, membrane cap, electrolyte

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
P9.2H	0–200	0.1	0 to -2000 mV 1 kΩ	±5 to ±15 VDC 10 mA	3326068
P9.2N	0–2000	1			3326067
P9.2L	0–2 % (20000 ppm)	0.001 % (10 ppm)			3326082
P9.2H-An	0–200	0.1	0 to -2000 mV (max. -2500 mV) 1 kΩ	9–30 VDC 20–56 mA	3426110
P9.2N-An	0–2000	1			3426111
P9.2L-An	0–2 % (20000 ppm)	0.001 % (10 ppm)			3426112
P9.2H-M0c	0–200	0.1	Modbus RTU		3426130
P9.2N-M0c	0–2000	1			3426131
P9.2L-M0c	0–2 % (20000 ppm)	0.001 % (10 ppm)			3426132

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
P9.2-MA-200	0–200	0.1	4–20 mA	12–30 VDC R _L = 50 Ω (12 V) to 900 Ω (30 V)	3426100
P9.2-MA-2000	0–2000	1			3426101
P9.2-MA-2%	0–2 % (20000 ppm)	0.001 % (10 ppm)			3426102
P9.2-MA-200-M12	0–200	0.1			3426160
P9.2-MA-2000-M12	0–2000	1			3426161
P9.2-MA-2%-M12	0–2 % (20000 ppm)	0.001 % (10 ppm)			3426162

Additional technical data:

Type:	Slope:	Cable Connection:	Special characteristics:
P9.2H	-10 mV/ppm	4-pin plug	Connection only to a controller with galvanically separated power supply.
P9.2N	-1 mV/ppm		
P9.2L	-1000 mV/% (-0.1 mV/ppm)		
P9.2H-An	-10 mV/ppm		
P9.2N-An	-1 mV/ppm		
P9.2L-An	-0.1 mV/ppm (-1000 mV/%)		
P9.2H-M0c	Modbus RTU	M12 female	-
P9.2N-M0c			
P9.2L-M0c			
P9.2-MA-200	0.08 mA/ppm	2 pole terminal	Connection only to a controller with galvanically separated power supply.
P9.2-MA-2000	0.008 mA/ppm		
P9.2-MA-2%	8 mA/% (0.0008 mA/ppm)	M12 female	
P9.2-MA-200-M12	0.08 mA/ppm		
P9.2-MA-2000-M12	0.008 mA/ppm		
P9.2-MA-2%-M12	8 mA/% (0.0008 mA/ppm)		

Spare parts:

Spare parts:	for sensor type:	Item number:
Membrane cap M9.1N + G-Holder	P9.2 all types	9026016
Electrolyte EPS9H/W	P9.2N, P9.2H, P9.2MA-200, P9.2MA-2000	9026071
Electrolyte EPS9L/W	P9.2L, P9.2MA-2%	9026072

Accessories:

Type:	for sensor type:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 ... 20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and mA Tester	all sensors with mV signal or mA signal	21131105

1.3.24.

DOSASens Peracetic acid sensor PES7

Sensor for the measurement of peracetic acid ($C_2H_4O_3$), with membrane-covered, amperometric 2-electrode system. Up to 1% of sulfur- and nitric acid are tolerated. The membrane system is mechanically robust, tensides are partially tolerated.



Product description:

- Measurand(s): Peracetic acid
- Calibration:
 - titrimetric method or with PES standard solution e.g.
- Interferences:
 - ClO_2 is registered with factor 1 of its measuring value
 - H_2O_2 is registered with factor 0.005 of its measuring value
 - O_3 is registered with factor 2500 of its measuring value
- pH range: 1– 6
- Pressure range:
 - Operation without circlip: 0–0.5 bar, no pressure surges and/or vibrations
 - Operation with circlip: 0–1.0 bar, no pressure surges and/or vibrations
- Temperature range: 0–45 °C, not any ice crystal in test water
- Integrated automatic temperature compensation
- Response time: T_{90} approx. 3 min.
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 15–30 l/h, low flow-dependence
- Shaft length: standard 175 mm, and up to 220 mm in length (mA-Version)
- Connection: 5-pin M12 screwed plug (mV-, mA-, Modbus RTU-version), 2-pole terminal (mA-Version)
- Material: PVC-U, stainless steel 1.4571

2

Areas of application:

- All types of water treatment (e. g. CIP system), including seawater.
- Lead acids are tolerated.
- Tensides are partially tolerated.

Scope of supply:

- DOSASens PES7 sensor, membrane cap, electrolyte, operating manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
PES7H-M12	0.5–200	0.1	0 to -2000 mV 1 kΩ	±5 to ±15 VDC, 10 mA	3626340
PES7N-M12	5–2000	1			3626341
PES7L-M12	0.005–2% (20000)	0.001% (10)			3626342
PES7H-An-M12	0.5–200	0.1		9– 30 VDC, 20– 56 mA	3626350
PES7N-An-M12	5–2000	1			3626351
PES7L-An-M12	0.005–2% (20000)	0.001% (10)			3626352
PES7Up	5–2000	1		±5 to ±12,5 VDC, 10 to 25 VDC, 25 mA	3326061
PES7Up5000	50–5000	1		±5 to ±15 VDC, 10 mA	3626010
PES7H-M0c	0.5–200	0.1	Modbus RTU	9– 30 VDC 20– 56 mA	3226220
PES7N-M0c	5–2000	1			3226221
PES7L-M0c	0.005–2% (20000)	0.001% (10)			3226222

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
02.05.2022

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
PES7MA-CC	0,5–200	0,1	4–20 mA	12–30 VDC $R_L = 50$ to 900 Ω	3326069
PES7MA-D	5–500	1,0			3326065
PES7MA-M	5–1000	1,0			3326097
PES7MA-MM	5–2000	1,0			3326063
PES7MA-5M	50–5000	1,0			3326066
PES7MA-CC-M12	0,5–200	0,1			3226240
PES7MA-D-M12	5–500	1,0			3226241
PES7MA-M-M12	5–1000	1,0			3226242
PES7MA-MM-M12	5–2000	1,0			3226243
PES7MA-5M-M12	50–5000	1,0			3226244

Additional technical data:

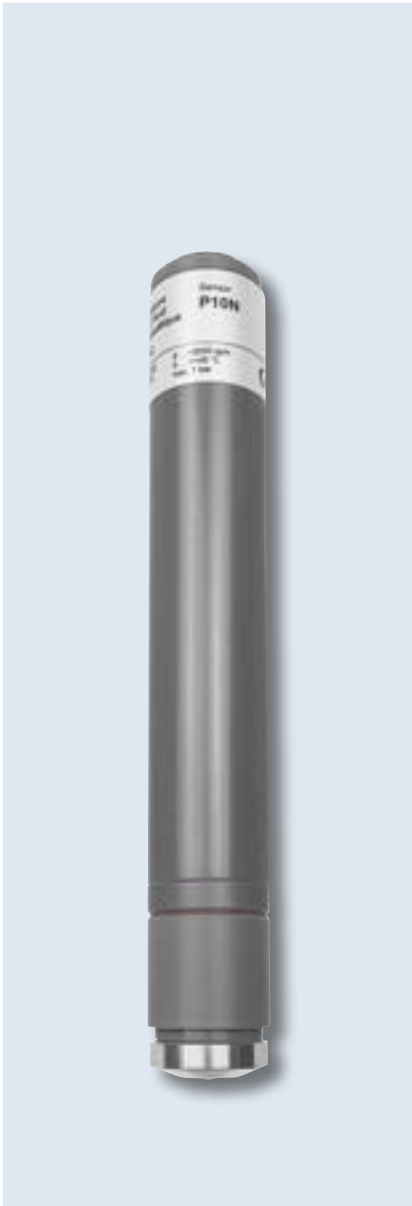
Type:	Slope:	Cable Connection:	Special characteristics:
PES7H-M12	-10 mV/ppm	5-pin M12 screwed plug	Connection only to a controller with galvanically separated power supply.
PES7N-M12	-1 mV/ppm		
PES7L-M12	-1000 mV/% (-0,1 mV/ppm)		
PES7H-An-M12	-10 mV/ppm		
PES7N-An-M12	-1 mV/ppm		
PES7L-An-M12	-1000 mV/% (-0,1 mV/ppm)		
PES7H-M0c	-10 mV/ppm		
PES7N-M0c	-1 mV/ppm		
PES7L-M0c	-1000 mV/% (-0,1 mV/ppm)		
PES7MA-CC	0,08 mA/ppm		
PES7MA-D	0,032 mA/ppm		
PES7MA-M	0,016 mA/ppm		
PES7MA-MM	0,008 mA/ppm		
PES7MA-5M	32 mA/% (0,0032 mA/ppm)		
PES7Up	1 mV/ppm	5-pin M12 screwed plug	-
PES7Up5000	0,4 mV/ppm		

Spare parts:

Spare parts:	for sensor type:	Item number:
Membrane cap M7.1N	PES7 (H, Hup, N, Un, Up, MA-CC, MA-D, MA-M, MA-MM)	9026010
Membrane cap M7.1L	PES/ (L, Up5000, MA-XM, MA-XXM, MA-5M)	9026012
Electrolyte EPS7/W	PES7 (100 ml) all types	9026064
Electrolyte EPS7L/W	PES7L, PES7Up5000 (100 ml)	9026068

Accessories:

Type:	for sensor type:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4–20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and mA Tester	all sensors with mV signal or mA signal	21131105



Sensor for the measurement of peracetic acid – surfactants and lead acids are tolerated. Peracetic acid sensor with membrane-covered, amperometric 2-electrode system. The membrane system is mechanically robust. The membrane system is largely tensile resistant.

Product description:

- Measurand(s): Peracetic acid
- Calibration of the controller:
 - DIN 38409-15 “Determination of hydrogen peroxide”
 - ISO/DIS 7157 “Determination of hydrogen peroxide – titrimetric method”
- Interferences:
 - ClO₂ is registered with factor 1 of its measuring value
 - H₂O₂ does not interfere
 - O₃ is registered with factor 2500 of its measuring value
- pH range: 1 – 6
- Pressure range:
 - Operation without circlip: 0–0.5 bar, no pressure surges and/or vibrations
 - Operation with circlip: 0–1.0 bar, no pressure surges and/or vibrations
- Temperature range: 0–45 °C
- Sensor with automatic temperature compensation
- Response time: T₉₀ approx. 1.5–5 min (depending on type and temperature)
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 45 l/h, low flow-dependence
- Shaft length: standard 175 mm, and up to 220 mm in length (mA-Version)
- Connection: standard 4-pole plug, M12 male, 2-pole terminal (for mA-version) or Modbus RTU with M12 male
- Material: PVC-U, stainless steel 1.4571

2

Areas of application:

- Fresh water, all types of water treatment (e.g. CIP-plant, rinsers)
- Lead acids: up to 1% sulfur, saltpetre and phosphoric acid have no influence on the measuring results.
- Surfactants are tolerated.

Scope of supply:

- **DOSASens P10** sensor, membrane cap, electrolyte, operating manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
P10H	0–200	0.1	0 to -2000 mV 1 kΩ	±5 to ±15 VDC, 10 mA	3426000
P10N	0–2000	1			3426001
P10L	0–2 % (20000 ppm)	0.001 % (10 ppm)			3426002
P10H-An	0–200	0.1	0 to -2000 mV (max. -2500 mV) 1 kΩ	9 – 30 VDC 20– 56 mA	3426010
P10N-An	0–2000	1			3426011
P10L-An	0–2 % (20000 ppm)	0.001 % (10 ppm)			3426013
P10H-MOc	0–200	0.1	Modbus RTU		3426030
P10N-MOc	0–2000	1			3426031
P10L-MOc	0–2 % (20000 ppm)	0.001 % (10 ppm)			3426032

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
P10MA-200	0–200	0.1	4 to 20 mA	12–30 VDC R _L = 50 Ω (12 V) ... R _L 900 Ω (30 V)	3426054
P10MA-2000	0–2000	1			3426050
P10MA-2%	0–2 % (20000 ppm)	0.001 % (10 ppm)			3426051
P10MA-5%	0–5 % (50000 ppm)	0.01 % (100 ppm)			3426052
P10MA-200-M12	0–200	0.1			3426064
P10MA-2000-M12	0–2000	1			3426060
P10MA-2%-M12	0–2 % (20000 ppm)	0.001 % (10 ppm)			3426061
P10MA-5%-M12	0–5 % (50000 ppm)	0.01 % (100 ppm)			3426062

Additional technical data:

Type:	Slope:	Cable Connection:	Special characteristics:
P10H	-10 mV/ppm	4-pin plug	Connection only to a controller with galvanically separated power supply.
P10N	-1 mV/ppm		
P10L	-1000 mV/% (-0,1 mV/ppm)		
P10H-An	-10 mV/ppm		
P10N-An	1 mV/ppm		
P10L-An	-1000 mV/% (-0.1 mV/ppm)		
P10H-M0c	Modbus RTU	M12 female	-
P10N-M0c			
P10L-M0c			
P10MA-200	0.08 mA/ppm	2 pole terminal	Connection only to a controller with galvanically separated power supply.
P10MA-2000	0.008 mA/ppm		
P10MA-2%	8 mA/% (0,0008 mA/ppm)	M12 female	
P10MA-5%	3.2 mA/% (0,00032 mA/ppm)		
P10MA-200-M12	0.08 mA/ppm		
P10MA-2000-M12	0.008 mA/ppm		
P10MA-2%-M12	8 mA/% (0,0008 mA/ppm)		
P10MA-5%-M12	3.2 mA/% (0,00032 mA/ppm)		

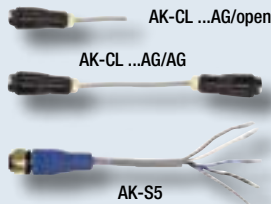
Spare parts:

Spare parts:	for sensor type:	Item number:
Membrane cap M10.1N+G	P10H, P10N, P10L (all types), P10MA-200, P10MA-2000, P10MA2%	9026017
Membrane cap M10.1G+G	P10MA5%	9026015
Electrolyte EPS9H/W	P10H, P10N all types, P10MA-2000	9026071
Electrolyte EPS9L/W	P10 L, all P10MA-2%, all P10MA-5%	9026072

Accessories:

Type:	for sensor type:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 – 20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and mA Tester	all sensors with mV signal or mA signal	21131105

Connection cable for amperometric sensors.



Product description:

- Signal-transmitting cable
- 4-pin threaded coupling connector
- Male
- Easy connection
- Available with cable lengths ranging from 0.5 to 30 m
- Tested by the manufacturer

2

Areas of application:

- Amperometric sensors.

Scope of supply:

- **DOSA*Sens* Connection cable AK**

Ordering data:

Type:	Length: m	Amount of poles:	Item number:
AK-CL0.5 male/open	0.5	4	3188052
AK-CL1 male/open	1.0		3188053
AK-CL2 male/open	2.0		3188054
AK-CL3 male/open	3.0		31107001
AK-CL5 male/open	5.0		3188056
AK-CL10 male/open	10.0		3188057
AK-CL15 male/open	15.0		3188058
AK-CL0,5 male/male	0.5		3188062
AK-CL1 male/male	1.0		3188063
AK-CL2 male/male	2.0		3188064
AK-CL3 male/male	3.0		3188065
AK-CL5 male/male	5.0		3188066
AK-CL10 male/male	10.0		3188067
AK-CL15 male/male	15.0		3188068
AK-S5-5 for KCL-Sensors	5.0		3331010
AK-CL 2, Modbus / mA, male/open (M12 plug)	2.0		31107000
AK-CL 5, Modbus / mA, male/open (M12 plug)	5.0		31107001
AK-CL 10, Modbus / mA, male/open (M12 plug)	10.0		31107002

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
Nov. 2022

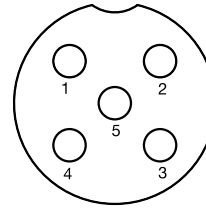
1.3.27.

DOSASens Replacement electrolytes E



Anschlusskabel mit 5-pol-Stecker

Cable sheath	TPU (polyurethane)
Handle	TPU
Union nut	GD-Zn, Ni
Protection rating	IP67 if screwed down



- 1 - brown
- 2 - white
- 3 - blue
- 4 - black
- 5 - green/yellow

Typ:	Länge:		Inhalt:	Artikelnummer:
AK-CL M12	0.7 m	male/open	5	31121000
AK-CL M12	1.0 m	male/open		31121005
AK-CL M12	10.0 m	male/open		31121025
AK-CL M12	15.0 m	male/open		31121030
AK-CL M12	2.0 m	male/open		31121010
AK-CL M12	20.0 m	male/open		31121035
AK-CL M12	5.0 m	male/open		31121015
AK-CL M12	7.0 m	male/open		31121020

Wiring mV (analogue signal processing)	0...-2000 mV	...+2000 mV
	White: +U	White: +U
	Blue: -U	Blue: voltage-GND
	Black: signal-GND	Black: signal-GND
	Green/yellow: not used	Green/yellow: not used
	Braun: measurement signal	Braun: measurement signal

Wiring mV (digitale signal processing)	0...+/-2000 mV
	White: +U
	Blue: voltage-GND
	Black: signal-GND
	Brown: measurement signal

Wiring Modbus	White: +U
	Blue: voltage-GND
	Black: RS485B
	Green/yellow: RS485A
	Brown: measurement signa

Wiring mA	White: +U
	Blue: -U
	Black: not used
	Green/yellow: not used
	Brown: not used

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
Nov. 2022

Electrolytes for amperometric sensors.

Product description:

- Suitable for amperometric sensors
- Make sure you choose the right electrolyte for your sensor

Areas of application:

- Amperometric sensors.

Scope of supply:

- **DOSA*Sens* Replacement electrolytes E**, 100 ml, 50 ml



Ordering data:

Type:	for Sensor type:	Volume:	Item number:
ECL1	Chlorine: CL3, CL4.1, CL4.2	100	9026050
ECL2.1	Chlorine: CL2.1		9026058
ECS2.1/Gel	Chlorine: CS 2.3, CS4		9026060
EAS1/Gel	Chlorine: AS (all)	50	9026066
ECP1.4/Gel	Chlorine: CP/CH1 (all), Bromine: BR1	100	9026074
ECC1.1/Gel	Chlorine: CC1 (all)		9026075
ECD4/W - 7/W	Chlorine dioxide: CD4, CD7 and CD10		9026073
EMST1/Gel	Chlorite: MST1N , zero chlorine sensor CN1		9026053
EOZ1/W	Ozone: OZ1, OZ1.2		9026054
EOZ7/W	Ozone: OZ7, OZ10		9026049
EWP7/W	Hydrogen peroxide: WP7, WP10		9026062
EPS7/W	Peracetic acid: PES7		9026064
EPS7L/W	Peracetic acid: PES7L, PES7Up5000		9026068
EPS9H/W	Peracetic acid: P9.1/P9.2 (H/N/MA-200/MA-2000/Up2000/Up5000), P10 (H/N/MA-200/MA-2000/Up2000)		9026071
EPS9L/W	Peracetic acid: P9.2L, P10L	9026072	

1.3.29.

DOSA*Sens* Membrane caps M

Membrane caps for amperometric sensors.



Product description:

- Preserves the functionality and sensitivity of the sensors
- We recommend the membrane caps should be changed twice a year or sooner if damaged or soiled
- Keep spares in stock for emergencies

2

Areas of application:

- Amperometric sensors.

Scope of supply:

- DOSA*Sens* Membrane cap M, sandpaper (for the anode in the tip of the sensor)
- Depending on the model: Tweezers for G holder, silicone O-ring (20 x 1.5), shock protection, pressure equalising membrane

Ordering data:

Type:	for sensor type:	G holder:	Sandpaper:	Item number:
M20.2	Chlorine: CL2.1 : N, MA2, MA20; CL3.1DW; CL6.0; CL4.1 : N, Up, H, L, MA0.5, MA2, MA5, MA10, MA20, MA-100, MA-200; CL4.2: N, Up, H, L, MA0.5, MA2, MA5, MA10, MA20, MA-100, MA-200 Chlorine dioxide: CD4 : N, H, MA0.5, MA2, MA5, MA10; CD4.2: N, H, MA0.5, MA2, MA5, MA10 Ozone: OZ1 : N, H, MA0.5, MA2, MA5, MA10, MA20; OZ1.2: N, H, MA0.5, MA2, MA5, MA10, MA20	No	S1	9026001
M48.2	Chlorine: CP, CC Chlorite: MST Bromine: BR	No	S1	9026020
M48.2G	Chlorine: CS2.3, CS3, CN1	Yes	S1	9026021
M48.2D	Chlorine: CP2.1HUn, CP2.1H	No	S1	9026022
M48.4E	Chlorine: CS4, CP4.0	No	S1	9026023
M48.4S	Chlorine: CS4SW, CP4.0SW (salt water)	No	S1	9026026
M7.1D	Hydrogen peroxide: WP7MA-XM	No	S2	9026007
M7.1N	Chlorine dioxide: CD7: H, HUp, N, Up, MA0.5, MA2, MA5, MA10, MA20 Peracetic acid: PES7: H, HUp, N, Un, Up, MA-CC, MA-D, MA-M, MA-MM; Hydrogen peroxide: WP7: H, HUn, Un, Up, MA-CC, MA-D, MA-M, MA-MM, N	No	S2	9026010

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
16.02.2021

Ordering data:

Type:	for sensor type:	G holder:	Sandpaper:	Item number:
M7.1N 03	Ozone: OZ7H, OZ7HUp, OZ7MA0.2, OZ7MA0.	No	S2	9026011
M7.1L	Peracetic acid: PES7: L, Up5000, MA-XM, MA-XXM, MA-5M Hydrogen peroxide: WP7: CUn, LUn, Up-CM, MA-CM, MA-LM, MA-XXM Chlorine dioxide: CD7: L, MA-200		S2	9026012
M7.1D 03	Ozone: OZ7N: OZ7MA2/5/10/20 - OZ7Up		S2	9026013
M9G	Peracetic acid: P9: D, L, N, Up2000, Up5000, -20%	Yes	S2	9026009
M9.1N	Peracetic acid: P9.2: H, N, L, MA-200, MA-2000, MA-2%	Yes	S2	9026016
M10.1D	Peracetic acid: P10: MA-5%; WP10: L, 10-20%, MA-2%, MA-5%	Yes	S2	9026015
M10.1N	Peracetic acid: P10: H, N, L, MA-200, MA-2000, MA-2%, Up5000 Chlorine dioxide: CD10: H, N, MA2, MA5, MA10, MA20	Yes	S2	9026017
M10.1H	Hydrogen peroxide: WP10H, WP10N / WP10MA-200	Yes	S2	9026018
M10.1D 03	Ozone: OZ10	Yes	S2	9026019
M10.3N	Chlorine dioxide: CD10.1 Ozone: OZ10.1	No	S2	9026028
MT1.1	For all CH1L chlorine sensors	No	S1	9026024
G-Holder	Chlorine: CS2.3 / CS3 / FC1 / CN1 Peracetic acid: P9 / P10 Hydrogen peroxide: WP10			9026070

1.3.30.

DOSASens Simulator pH, redox and chlorine

Simulation of sensors with pH, redox or chlorine output.



Product description:

- Simulator for signals from pH, redox or amperometric sensors such as: chlorine, bromine, ozone, hydrogen peroxide, etc.
- Selection of multiple simulation ranges
- pH simulation range 0–14 or 6.4–8.0
- Redox simulation range 0–1400 mV
- 0 to -600 mV output for amperometric sensors
- SN6 socket for pH or redox
- 4-pin socket mV signal
- 9 V monobloc battery (please replace annually, not included)

2

Areas of application:

- Simulation of sensors with pH, redox or chlorine output.

Scope of supply:

- DOSASens Simulator pH, redox and chlorine, dimensions 135 x 80 x 45 mm (L x W x H)

Ordering data:

Type:	Item number:
Simulator pH, redox and chlorine	21131100
pH or redox connection lead, AK 1 SN6/BNC , 1.0 m, Ø. 5 mm	3184082
mV signal connection lead, chlorine, plug AK-CL 1 AG/open	3188053

1.3.31.

DOSASens Simulator SIM11.1n

Simulation of sensors with 0, -100 and -1000 mV output.



Product description:

- Simulator for sensors with mV output
- Selection of simulation range
- Available signals: 0 mV, -100 mV, -1000 mV
- Connection identical to the sensor (AK-CL)
- Power supply ± 5 to ± 15 VDC (from the controller)
- EMC testing in accordance with DIN EN 61326-1

Areas of application:

- Simulation of sensors with pH, redox or mV output.

Scope of supply:

- DOSASens Simulator SIM11.1n

Ordering data:

Type:	Item number:
Simulator SIM11.1n	9026205

1.3.32.

DOSA*Sens* Simulator/Tester pH, redox, mV or mA signal

Simulation/testing of sensors with pH, redox, mV or mA signal.



Product description:

- Digital display of the measured values
- Simple switching from measurement to testing
- Infinitely variable
- Simulator/tester for signals from pH, redox, mV or mA sensors
- Measuring range: (measuring and simulation)
 - pH: 0–14
 - Redox: 0 to ± 1400 mV
 - Amperometric sensors: 0 to -100 mV
 - Amperometric sensors: 0 to -1000 mV
 - mA input 4–20 mA measuring cells
- Continuity tester
- Cable connection:
 - pH/Redox 2 x SN 6
 - mV 4-pin external thread
 - mA with 5-pin with a 2-pin assignment

2

Areas of application:

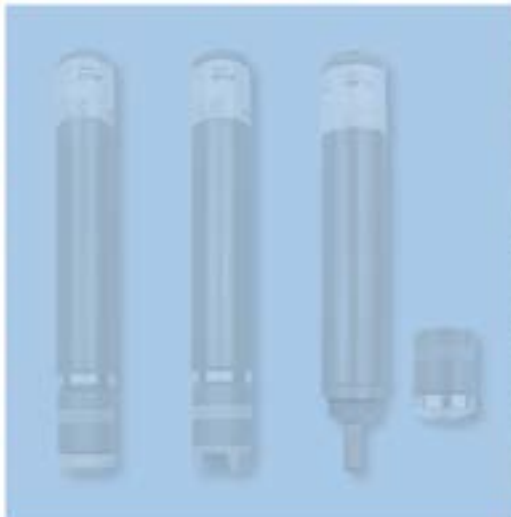
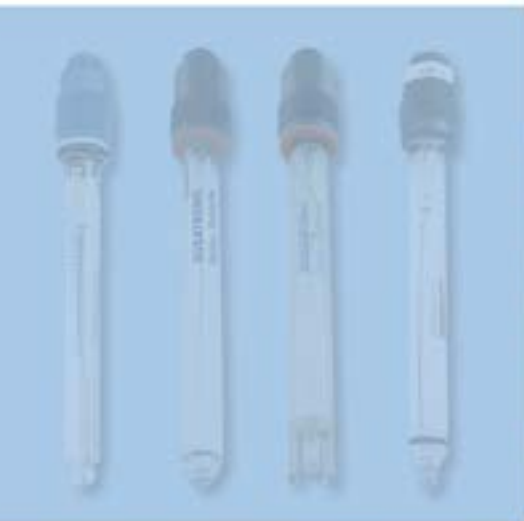
- Simulation of sensors with pH, redox and mV.
- Test of pH, redox, continuity, mV or mA signal.

Scope of supply:

- DOSA*Sens* Simulator/Tester pH, Redox, mV or mA signal
- Cables are included

Ordering data:

Type:	Item number:
Simulator/Tester pH, Redox, mV or mA Signal	21131105



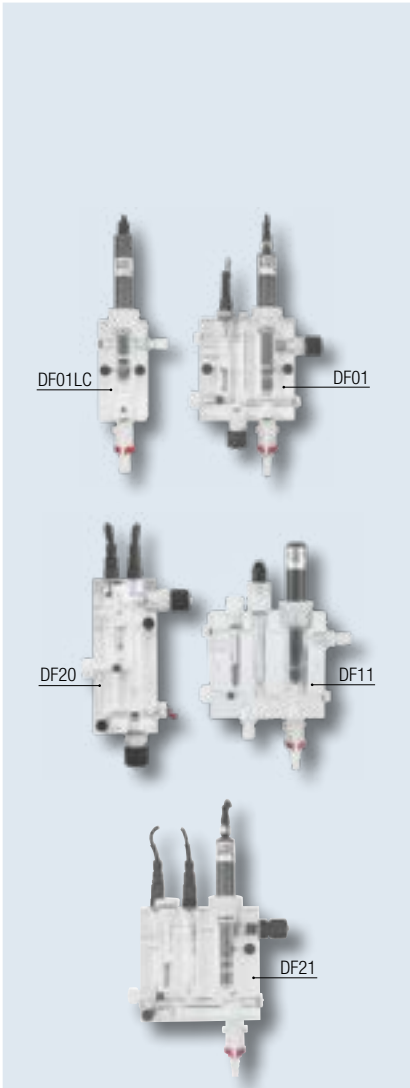
2. Sensors

1.4. Probe holder

1.4.1.

DOSASens Flow cell DF

Flow cell made of high-grade, transparent acrylic (PMMA) for holding electrochemical sensors.



Product description:

- High-quality device made of transparent acrylic (PMMA)
- Equipped with needle valve to set the flow rate and with float to indicate the current flow
- As an option for flow monitoring: inductive proximity switch
- The fitting is equipped with a sample valve (except for DF 20)
- The flow geometry is perfectly adapted to the sensors
- Operating temperature range: 25 to 75°C
- C (water up to 50 °C, cold water) connection in PP, screw connection in PVC
- H (water up to 80°C, hot water) connection in PVDF, screw connection in PVDF
- 80 °C as an option for hot water (this option allows an operating pressure of 8 bar even at 80 °C, make sure you select a corresponding kit for the hose connection)
- Max. operating pressure: 6 bar
- Sample water flow rate: > 30 l/h
- Connection: 1 ¼" with d = 25 mm, PG 13.5
- (Connection to temperature sensor possible, except DF01LC-C and DF01LC)

Areas of application:

- Holding electro-chemical sensors.
- e.g. pH, redox (ORP), oxygen, temperature

Scope of supply:

- **DOSAFlow DF** flow cell
(Electrodes, sensors and temperature sensors are not scope of supply.)

Ordering data:

Type:	Equipment:	Connections:	Item number:
DF01LC-C	1 amperometric measuring cell	1 x 1 ¼" (female thread)	3488070
DF01LC-H	1 amperometric measuring cell	1 x 1 ¼" (female thread)	3488080
DF01H	1 amperometric measuring cell	1 x 1 ¼"	3488210
DF20H	2 electrodes	2 x PG 13.5	3488175
DF11C	1 amperometric measuring cell, 1 electrode	1 x PG 13.5, 1 x 1 ¼"	3488260
DF11H	1 amperometric measuring cell, 1 electrode	1 x PG 13.5, 1 x 1 ¼"	3488275
DF21	2 electrodes, 1 amperometric measuring cell	2 x PG 13.5, 1 x 1 ¼"	3488155

Options:

Type:	Equipment:	Item number:
Connection kit for cold water up to 50 °C	Hose connection with 2 shut-off ball valves, 2 hose connections ½" and, respectively,	3488400
Connection kit for hot water up to 80 °C	2 x 2 m connection hose 6 x 8 mm	3488405
Inductive proximity switch DFÜ1	Connection kit PNP type (NO), 2 m fixed cable	3454000
Inductive proximity switch DFÜ2	Connection kit NPN type (NO), 2 m fixed cable	3454010
Inductive proximity switch DFÜ3	Connection kit PNP type (NC), 2 m fixed cable	3454050
Inductive proximity switch DFÜ4	Connection kit NPN type (NC), 2 m fixed cable	3454060

1.4.2.

DOSA*Sens* Flow cell DAS

PVC Flow cell for holding electrodes with PG 13.5



Product description:

- Made of high-grade PVC
- Operating temperature range: 1 to 50 °C
- Max. operating pressure: 6 bar
- The **DAS** flow cells have screw connections and PVC glue sockets, enabling them to be mounted in the full stream
- Connection: glue socket
- Electrode holding thread PG 13.5

Areas of application:

- Holding of electrodes.
- e.g. pH, redox (ORP), oxygen, temperature

Scope of supply:

- **DOSA*Flow* DAS** flow cell

Ordering data:

Type:	Equipment:	Connections:	Item number:
DAS 1KC DN 25, D 32	1 electrode holder	EPDM	3488020
DAS 1KC DN 25, D 32		Viton	3488025

1.4.3.

DOSA*Sens* Flow cell ETA

PP immersion cell for electrode attachment.



Product description:

- Operating temperature: 0 to 80 °C
- Max. operating pressure: 8 bar
- Material: polypropylene
- Electrode length: 120 mm
- Connection: PG 13.5
- Cable inlet protection: IP 65
- Design:
 - ETA 1: Ø 40 mm, for 1 electrode

2

Areas of application:

- Installation in open tanks and channels.
- e.g. pH, redox (ORP), oxygen, temperature, conductivity (conductive glass electrodes) electrodes

Scope of supply:

- **DOSA*Flow* ETA** flow cell immersion cell, incl. 2 pipe clamps for wall mounting

Ordering data:

Type:	Length: mm	Connections:	Item number:
ETA (1 electrode)	500	PG13.5	34183001
	1000		34183002
	1500		34183003
	2000		34183004

Options:

Type:	Length: mm	Item number:
Optional immersion tube length	Custom length	On request

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
22.01.2018



Accessories: PP (polypropylene) mounting flange

Type:	Item number:
Mounting flange DN32	34183060
Mounting flange DN50	34183065

Accessories: Wetting cup type N1 made of PP

Type:	Item number:
Wetting cup	34183080

Accessories: Electrode spray cleaner type S made of PP

Type:	Item number:
Cleaning nozzle for immersion cell 500 mm	34183090
Cleaning nozzle for immersion cell 1000 mm	34183091
Cleaning nozzle for immersion cell 2000 mm	34183092

1.4.4.

DOSA*Sens* Flow cell ILS

Flow cell for the **DOSA*Sens* ILS2** amperometric sensor (without membrane). The **DOSA*Sens* flow cell ILS** was developed for direct pipe installation without bypass – and for uninterrupted* installation in the process chain. Very well suited even in confined spaces, where a bypass may not be possible.

Product description:

- Flow cell for *uninterrupted** installation of an amperometric sensor. (*Uninterruptible* installation:* The **DOSA*Sens* flow cell ILS** is installed by drilling the pipe, under pressure and while the flow/operation is running).
- Very suitable in confined spaces
- Tapping clamp made of metal with blue epoxy coating (certified for drinking water)
- Adjusting strap made of stainless steel (AISI 304) and insulation made of EPDM
- Stainless steel nuts (AISI 304)
- Pressure sensor (stainless steel)
- Sampling valve (stainless steel)
- Operating temperature range: 0–75 °C (flow cell), 50 °C ILS2 sensors
- High pressure absorption of special sensors possible (up to 8 bar), the fitting itself can take up to 16 bar, this buffer ensures the tightness
- Sample water flow rate: unlimited (ILS sensors must not stand dry)
- Connection: 1 ¼" mit d = 25 mm

Areas of application:

- Holding electro-chemical sensors. E.g. chlorine, chlorine dioxide
- cramped space
- uninterrupted installation

Scope of supply:

- **DOSA*Sens* flow cell ILS**, valve for sampling, pressure gauge and pipe clamp made of stainless steel (**ILS2-Sensor** is not included.)

Ordering data:

Type:	Equipment:	Connection sizes:	Connections:	Item number:
ILS60	Recording for an amperometric sensor.	DN60	1 x 1 ¼" (inner thread)	38288000
ILS80		DN80		38288010
ILS100		DN100		38288020
ILS125		DN125		38288030
ILS150		DN150		38288040
ILS175		DN175		38288050
ILS200		DN200		38288060
ILS225		DN225		38288070
ILS250		DN250		38288080
ILS300		DN300		38288090
ILS300L		DN300		38288100

Options:

Type:	Equipment	Item number:
ILS2 chlorine sensors	Specially adapted sensors for the ILS flow cell.	see ILS2 sensors
ILS2 chlorine dioxide sensors		

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
25.10.2019

1.4.5.

DOSASens Flow cell PA

Assembly for holding pH and redox electrodes.



Product description:

- Assembly for holding pH and redox electrodes with PG 13.5 connectionthread
- For electrodes up to 120 mm in length
- Easy in-process insertion and retraction of the electrodes
- Cleaning and calibration of the electrodes with zero downtime
- Especially stable, durable fitting made of polypropylene (PP) or polyvinylidene fluoride (PVDF)
- Operating temperature range:
 - Up to 70 °C, PP
 - Up to 120 °C, PVDF
- Operating pressure:
 - Up to 5 bar at 50 °C, PP
 - Up to 5 bar at 100 °C, PVDF
- Connection thread size: 3/4" thread
- Ø 40 mm
- h1 = 80 mm, h2 = 43 mm

2

Areas of application:

- Installation in pipes or tanks.

Scope of supply:

- DOSASens PA flow cell

Ordering data:

Type:	Item number:
PA, made of PP	3464060
PA, made of PVDF	3464070

1.4.6.

DOSA*Sens* Flow cell DFA

Noryl flow cell for attaching electrodes.



Product description:

- High quality flow cell made of transparent Noryl plastic
- Flow cell cup easily removable for cleaning and maintenance
- Flow cell head made of polypropylene (PP)
- Optimised flow to the electrodes
- With equipotential bonding pin
- Max. operating pressure: 5 bar
- Operating temperature range: 50 °C

Areas of application:

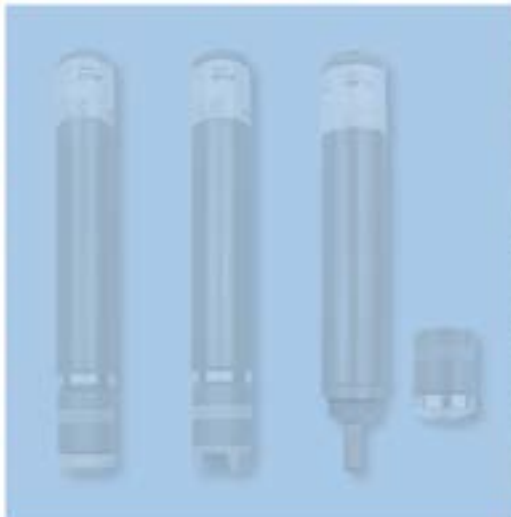
- Holding of electrodes, e.g. pH, redox (ORP), oxygen, temperature.

Scope of supply:

- **DOSA*Sens* DFA** flow cell with mounting bracket, ball valve for flow control, hose connections 1/2", 4 m PE hose 6 x 8 mm

Ordering data:

Type:	Equipment: electrodes	Flow monitoring:	Connections: Ø, mm	Item number:
DFA-0-PP-1-2	2	-	Clamping connection 12 mm	34118000
DFA-0-PP-1-3	3	-		34118005
DFA-0-PP-2-2	2	-	PG13.5	34118010
DFA-0-PP-2-3	3	-		34118015



2. Sensors

1.5. Filter technology

1.5.1.

DOSASens Filter VF/80 5"



Noryl water filter.

Product description:

- Material:
 - Housing head: polypropylene (PP)
 - Housing cup: Noryl, transparent
- Flow cell cup easily removable for cleaning and maintenance
- Operating pressure: max. 6 bar
- Operating temperature range: 45 °C (max.)

2

Areas of application:

- Pre-filter.

Scope of supply:

- **DOSASens VF/80 5"** water filter, pre-filter, housing with mounting bracket, flow control, valve, 2 hose connections, 1/2" x 6/8 mm, and 4 m PE hose

Ordering data:

Type:	Micron rating:	Material:	Cartridge:	Connection:	Mounting:	Item number:
	μ	cartridge	washable	mm		
VF/80 5"	80	PET	+	hose 6 x 8	Wall device	90118500

Spare parts:

Type:	Micron rating:	Material:	Cartridge:	Item number:
	μ	cartridge	washable	
Replacement cartridges 80	80	PET	+	90118506

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
11.07.2017

