

1.1.1 **DOSAControl** measurement and control unit **DCW 230**

2-channel controller for potentiostatic and amperometric sensors, for measuring pH, free chlorine, chlorine dioxide, ozone, hydrogen peroxide, redox or conductivity and for measuring and indicating temperature.



General information:

- Microprocessor unit with backlit LC display
- Settings via keypad
- Signal input for pH and redox electrodes, with BNC connector
- Inductive conductivity
- Conductive conductivity with cell constants 0.1, 1 and 10
- Input for amperometric sensors with 4 ... 20 mA
- output signal Cl₂, ClO₂, O₂ or H₂O₂
- Temperature measurement with Pt100 or Pt1000
- Automatic temperature compensation
- Built-in data memory, with the option of creating data tables and charts
- 2 programmable 0/4 ... 20 mA analogue outputs (500 Ω)
- 2 relay outputs for limits
- Communication via RS485 interface (Modbus protocol)
- Digital input for external dosing stop 24 V, 10 mA max.
- 1 alarm relay output or temperature setpoint
- 2 relay outputs for switching final control elements ON/OFF, 1 A relays at 230 VAC
- One relay output for sensor cleaning or temperature setpoint
- Power connection: 100 ... 240 VAC ± 10%, 50/60 Hz, 24 VDC as an option
- Housing in ABS plastic, protection class IP65

Applications:

- Measurement and control of:
pH, free chlorine, chlorine dioxide, ozone, hydrogen peroxide, redox or conductivity as well as measurement and indication of temperature

Scope of supply:

- DOSAControl **DCW 230**, standard connection lead 2 m, IP65 housing, in ABS plastic for wall mounting

Ordering:

Type:	Indicator:	Item No.:
DOSAControl DCW 230	pH and redox	21230035
	pH and conductivity, inductive sensor	21230040
	pH and conductivity, conductive sensor	21230025
	pH and amperometric sensors with output signal for chlorine, chlorine dioxide, ozone or hydrogen peroxide and pH	21230015

Accessories:

Type:	Option:	Item No.:
For DOSAControl DCW230	DOSAFlow DF20H (for 2 electrodes)	3488175
	DOSAFlow DF11H (for 1 electrode and 1 amperometric sensor)	3488275
	5" water filter, with washable filter cartridge (60 µm)	9013500
	DOSAControl photometer for chlorine	90231000
	DOSAControl photometer for chlorine dioxide	90231060
	DOSAControl photometer for ozone	90231030
	DOSAControl photometer for hydrogen peroxide	90231040
	DOSAControl photometer for interferences	90231050
	mA or mV sensor simulator	On request
	Connection lead, AK 1 SN6/BNC, 1.0 m, Ø 5 mm	3184082
	Connection lead with plug, AK-CL 1 AG/open end	3188053

Accessories: Potentiostatic sensors

pH sensors:	Area of use:	Diaphragm:	Installation:	Cable connection:	Item No.:
DOSA Sens HGR Ring Junction	Media containing solids	Open ring junction	PG 13.5	SN 6	31165000
DOSA Sens PHGB2F	Swimming pools, all types of water treatment	Ceramic	PG 13.5	0.80 m fixed lead with BNC plug	31220000
DOSA Sens PHGK-2 Glass Barrel	Process and wastewater technology	Ceramic	PG 13.5	SN 6	3189001
DOSA Sens PHPK-2 Polysulfone Barrel	Swimming pools	Ceramic	PG 13.5	SN 6	3189003
DOSA Sens PHRT-2	Water / wastewater	Annular	PG 13.5	SN 6	3151122
Redox sensors:					
DOSA Sens PFGR-2/120	Wastewater and electroplating technology	Platinum	PG 13.5	SN 6	3151065
DOSA Sens MVRTHT-2	Water treatment, industrial wastewater and process technology	Platinum	PG 13.5	SN 6	3151125
DOSA Sens RHGB2F	Swimming pools, all types of water treatment	Glass	PG 13.5	0.80 m fixed lead with BNC plug	31220100
DOSA Sens MVGK-2	Process and wastewater technology	Ceramic	PG 13.5	SN 6	3189013
DOSA Sens MVPK-2	Swimming pools with a relatively long service life	Ceramic	PG 13.5	SN 6	3189015

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
27-02-2018

Accessories: Sensors with mA signal

Type:	Indicator:	Measuring range: mg/l	Resolution: mg/l	Slope:	Item No.:
CL4.2MA0,5	Free chlorine	0.01 ... 0.50	0.01	mA/ppm	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
CL4.2MA100		0.5 ... 100.0	0.1		3326245
CL4.2MA200		0.5 ... 200.0	0.1		3326246
CL4.2MA0,5-M12		0.01 ... 0.50	0.01		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
CL4.2MA100-M12		0.5 ... 100.0	0.1		3326255
CL4.2MA200-M12		0.5 ... 200.0	0.1		3326256
AS2MA1-CL		0.03 ... 1.00	0.01		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
AS3MA1-CL		0.03 ... 1.00	0.01		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

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
27-02-2018

Accessories: Sensors with mA signal

Type:	Indicator:	Measuring range: mg/l	Resolution: mg/l	Slope:	Item No.:	
AS3MA10-CL-M12	Free chlorine	0.03 ... 10.00	0.01	mA/ppm	3426743	
AS3MA20-CL-M12		0.03 ... 20.00	0.01		3426744	
CS4MA2	Free chlorine with reduced pH dependence	0.01 ... 2.00	0.01		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		0.5 ... 200.0	0.1		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		0.5 ... 200.0	0.1		3426307	
CC1MA2		Inorganic chlorine and organically combined chlorine (isocyanuric acid)	0.01 ... 2.00		0.01	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	
CD4.2MA0,5	Chlorine dioxide	0.005 ... 0.500	0.001	3326480		
CD4.2MA2		0.01 ... 2.00	0.01	3326481		
CD4.2MA5		0.01 ... 5.00	0.01	3326482		
CD4.2MA10		0.01 ... 10.00	0.01	3326483		
CD4.2MA0,5-M12		0.005 ... 0.500	0.001	3326490		
CD4.2MA2-M12		0.01 ... 2.00	0.01	3326491		
CD4.2MA5-M12		0.01 ... 5.00	0.01	3326492		
CD4.2MA10-M12		0.01 ... 10.00	0.01	3326493		
CD7MA0,5		0.005 ... 0.500	0.001	3326045		
CD7MA2		0.01 ... 2.00	0.01	3326046		

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
27-02-2018

Accessories: Sensors with mA signal

Type:	Indicator:	Measuring range: mg/l	Resolution: mg/l	Slope:	Item No.:
CD7MA5	Chlorine dioxide	0.01 ... 5.00	0.01	mA/ppm	3326047
CD7MA10		0.01 ... 10.00	0.01		3326048
CD7MA20		0.01 ... 20.00	0.01		3326086
CD7MA200		0.5 ... 200.0	0.1		3326104
CD7MA0,5-M12		0.005 ... 0.500	0.001		3226610
CD7MA2-M12		0.01 ... 2.00	0.01		3226611
CD7MA5-M12		0.01 ... 5.00	0.01		3226612
CD7MA10-M12		0.01 ... 10.00	0.01		3226613
CD7MA20-M12		0.01 ... 20.00	0.01		3226614
CD7MA200-M12		0.5 ... 200.0	0.1		3226615
CD10MA2		0.01 ... 2.00	0.01		3426205
CD10MA5		0.01 ... 5.00	0.01		3426206
CD10MA10		0.01 ... 10.00	0.01		3426207
CD10MA20		0.01 ... 20.00	0.01		3426208
CD10MA2-M12		0.01 ... 2.00	0.01		3426230
CD10MA5-M12		0.01 ... 5.00	0.01		3426231
CD10MA10-M12		0.01 ... 10.00	0.01		3426232
CD10MA20-M12		0.01 ... 20.00	0.01		3426233
AS2MA1-CD		0.03 ... 1.00	0.01		3326151
AS2MA2-CD		0.03 ... 2.00	0.01		3326152
AS2MA5-CD		0.03 ... 5.00	0.01		3326153
AS2MA1-CD-M12		0.03 ... 1.00	0.01		3426840
AS2MA2-CD-M12		0.03 ... 2.00	0.01		3426841
AS2MA5-CD-M12		0.03 ... 5.00	0.01		3426842
AS3MA1-CD		0.03 ... 1.00	0.01		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

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
27-02-2018

Accessories: Sensors with mA signal

Type:	Indicator:	Measuring range: mg/l	Resolution: mg/l	Slope:	Item No.:	
WP7MA-CC	Hydrogen peroxide	0 ... 200.0	0.1	mA/ppm	3326081	
WP7MA-D		0 ... 500.0	0.1		3326075	
WP7MA-M		0 ... 1000	1		3326099	
WP7MA-MM		0 ... 2000	1		3326074	
WP7MA-XM	Hydrogen peroxide	0 ... 10000	10		3326072	
WP7MA-CC-M12		0 ... 200.0	0.1		3226100	
WP7MA-D-M12		0 ... 500.0	0.1		3226101	
WP7MA-M-M12		0 ... 1000	1		3226102	
WP7MA-MM-M12		0 ... 2000	1		3226103	
WP7MA-XM-M12		0 ... 10000	10		3226104	
WP10MA-200		Hydrogen peroxide	0 ... 200		0.1	3326313
WP10MA-2000			0 ... 2000		1	3326314
WP10MA-2%			0 ... 20000		10	3326310
WP10MA-5%			0 ... 50000		100	3326311
WP10MA-10%			0 ... 100000		10	3326312
WP10MA-200-M12			0 ... 200		0.1	3326323
WP10MA-2000-M12			0 ... 2000		1	3326324
WP10MA-2%-M12			0 ... 20000		10	3326320
WP10MA-5%-M12			0 ... 50000		100	3326321
WP10MA-10%-M12			0 ... 100000		10	3326322
OZ1.2MA20	Ozone	0.01 ... 20.00	0.01	3426554		
OZ1.2MA20-M12		0.01 ... 20.00	0.01	3426524		
OZ7MA20		0.05 ... 20.00	0.01	3326103		
OZ7MA20-M12		0.05 ... 20.00	0.01	3226035		
OZ10MA20		0.05 ... 20.00	0.01	3426419		
OZ10MA20-M12		0.05 ... 20.00	0.01	3426424		

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
27-02-2018

Accessories: Conductivity sensors

Electrode material:	Body material:	High-temperature:	Max. value:	Cell constant:	Temperature probe:	Installation:	Item No.:
Stainless steel	PTFE	No	μS/cm 500	0,1	No	Flow cell, or direct into the pipe	3313003
			μS/cm 1000	0,2			3313012
			μS/cm 2000	1			3313013
			μS/cm 500	0,1	NTC 10 kΩ		3313028
			μS/cm 1000	0,2			3313035
			μS/cm 2000	1			3313036
			μS/cm 500	0,1	Pt100		3313045
			μS/cm 1000	0,2			3313046
			μS/cm 2000	1			3313047

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
27-02-2018