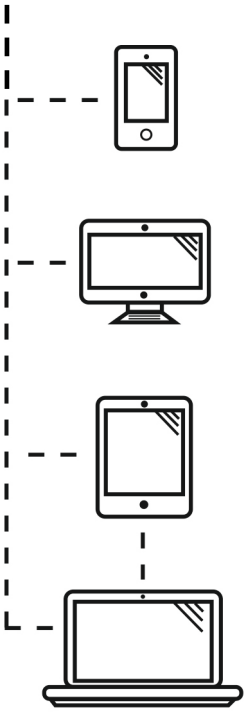
## 1.1.1 DOSA*Control* Measuring and Control Device **DCW 400ip**

**Integrated* web server for an app-free measurement, regulation and remote control with a classicaly 4-canal-controller, for the measuring and, optionaly regulation of: pH-, redox and free chlorine, total chlorine, chlorine dioxide, free bromine, hydrogen peroxide, peracetic acid and many other parameters.**



### Product description:

- operation via web browser with external device (PC, smartphone tablet pc) with integrated access administration
- LAN-connection RJ45 necessary, DHCP- or hard addressing
- LED-display on the device, display-free settings via network
- data recording in the device via Micro-SD card and by remote access
- E-mailing of the files and alarms to 3 configurable addresses
- General functions:
  - computation of the activity of the free chlorine
  - correction of the pH-error of the chlorine mV-sensors
  - monitoring of the overrange from the mV-sensores
  - evaluation of the empty signal chater
  - separate external metering enabling via electronic input
  - evaluation of the inductive flowmeter with (optional) flow-compensation
  - evaluation of other reed-contacts
  - guided calibration
- Input:
  - 4 galvanically isolated slots for pH-, redox- or mV-sensors (see accessory list)
  - 1 x temperature measurement with Pt100, Pt1000
  - 4 x digital input
  - 1 NPN or PNP
- Output:
  - 4 relays as Pulse, PWM, ON / OFF, Warning, Alarm
- Regulation:
  - per channel
    - ON / OFF (or) controller
    - P-, PI-, PID-controller
    - adaptive controller
- Power connection: 90 … 240 V AC + 10%, 50/60 Hz, 24 DC as an option
- Housing in ABS plastic, protection class IP65

### Areas of application:

- Measurement and regulation with Web-connection

### Scope of supply:

- **DOSA*Control* DCW 400ip**, 230 V standard connection lead 5 m, IP 65 housing, 229 x 204 x 116 (W xH x D)) mm in ABS plastic for wall mounting

*Is not connected to an external Internet-Server, it will only be addressed through Your internal network = completely autonomous system

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## Ordering data:

| Type: | Measurement: | Item number: |
|---|---|---|
| **DOSA*Control* DCW 400ip** (basic unit) | | 2188300 |
| Modules:<br>(will be needed for special measurements) | pH-module | 21250100 |
| | Redox module | 21250110 |
| | Analog module In (0 … -2000 mV) | 21250120 |
| | Analog module Out (2x 4 … 20 mA out) | 21250130 |

## Accessories:

| Type: | Option: | Item number: |
|---|---|---|
| for **DOSA*Control* DCW 400ip** | **DOSA*Flow*** flow cell **DF11H** | 3488275 |
| | Flow control **DFÜ 1**, inductive proximity switch | 3454000 |
| | **VF/80 5**“, water filter, with washable filter cartridge (80 µm) | 90118500 |
| | **DOSA*Control*** photometer for chlorine | 90231000 |
| | **DOSA*Control*** photometer for chlorine dioxide | 90231060 |
| | **DOSA*Control*** photometer for ozone | 90231030 |
| | DOSAControl photometer for bromine | 90231020 |
| | DOSAControl photometer for chlorite | 90231010 |
| | DOSAControl photometer for hydrogen peroxide | 90231040 |
| | DOSAControl photometer for interferents | 90231050 |
| | Connection lead, **AK 1** SN6/BNC, 1.0 m, Ø 5 mm | 3184082 |
| | mV simulator and mA tester, tests all sensors with an mV or mA signal | 21131105 |
| | Connection lead with plug, **AK-CL 1** AG/open | 3188053 |

## Accessories: redox- sensors

| Redox-Sensors: | Range of application: | Diaphragm: | Installation: | Cable connection: | Item number: |
|---|---|---|---|---|---|
| **PFGR-2/120** | Wastewater and electroplating technology | Platinum | PG 13,5 | SN 6 | 3151065 |
| **MVRTHT-2** | Water treatment, industrial wastewater and process technology | Platinum | PG 13,5 | SN 6 | 3151125 |
| **RHGB2F** | Swimming pools, all types of water treatment | Glass | PG 13,5 | fixed cable 0,8 m with BNC-connector | 31220100 |
| **MVGK-2** | Process and wastewater technology | Ceramic | PG 13,5 | SN 6 | 3189010 |
| **MVPK-2** polysulfone shaft | Swimming pools with a relatively long service life | Ceramic | PG 13,5 | SN 6 | 3189015 |

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## Accessories: pH-Sensors

| pH-electrode : | Range of application: | Diaphragm: | Installation: | Cable connection: | Item number: |
|---|---|---|---|---|---|
| **HGR** ring gap | with solid material charged media | open ring gap | PG 13,5 | SN 6 | 31165000 |
| **PHGB2F** | large pool, general water treatment | ceramic | PG 13,5 | fixed cabel 0,8 m with BNC-connector | 31220000 |
| **PHGK-2** glass-shank | process- and waste water technology | ceramic | PG 13,5 | SN 6 | 3189001 |
| **PHPK-2** polysulfone-shaft | swimming-pool technology | ceramic | PG 13,5 | SN 6 | 3189003 |
| **DOSA***Sens* **PHRT-2** | water / waste water | ring-diaphragm | PG 13,5 | SN 6 | 3151122 |

## Accessories: Sensors with mV signal

| Type: | Measured variable: | Measuring range: mg/l | Resolution: mg/l | Slope: | Item number: |
|---|---|---|---|---|---|
| CL42H | free chlorine | 0,005 … 2,000 | 0,001 | mV/ppm | 3326210 |
| CL42DW | | 0,005 … 5,000 | 0,001 | | 3326211 |
| CL42N | | 0,05 … 20,00 | 0,01 | | 3326212 |
| CL42H-An | | 0,005 … 2,000 | 0,001 | | 3326215 |
| CL42N-An | | 0,05 … 20,00 | 0,01 | | 3326216 |
| AS2H-CL | | 0,005 … 2,000 | 0,001 | | 3326128 |
| AS2N-CL | | 0,03 … 20,00 | 0,01 | | 3326110 |
| AS2H-CL-An | | 0,005 … 2,000 | 0,001 | | 3426750 |
| AS2N-CL-An | | 0,03 … 20,00 | 0,01 | | 3426751 |
| AS3H-CL | | 0,005 … 2,000 | 0,001 | | 3326126 |
| AS3N-CL | | 0,03 … 20,00 | 0,01 | | 3326120 |
| AS3H-CL-An | | 0,005 … 2,000 | 0,001 | | 3426700 |
| AS3N-CL-An | | 0,03 … 20,00 | 0,01 | | 3426701 |
| CS4H | free chloriene wih reduced pH-dependence | 0,005 … 2,000 | 0,001 | | 3426300 |
| CS4N | | 0,05 … 20,00 | 0,01 | | 3426301 |
| CS4L | | 0,5 … 200,0 | 0,1 | | 3426302 |
| CS4H-An | | 0,005 … 2,000 | 0,001 | | 3426320 |
| CS4N-An | | 0,05 … 20,00 | 0,01 | | 3426321 |
| CS4H | | 0,005 … 2,000 | 0,001 | | 3426300 |
| CP4.0H | total chlorine | 0,005 … 2,000 | 0,001 | | 3226330 |
| CP4.0N | | 0,05 … 20,00 | 0,01 | | 3226331 |
| CP4.0H-An | | 0,005 … 2,000 | 0,001 | | 3226330 |
| CP4.0N-An | | 0,05 … 20,00 | 0,01 | | 3226331 |
| CC1H | anorganic chlorine and organic fixed chlorine (Iso-cyanuracid) | 0,005 … 2,000 | 0,001 | | 3326102 |
| CC1N | | 0,05 … 20,00 | 0,01 | | 3326090 |
| CC1H-An | | 0,005 … 2,000 | 0,001 | | 3426600 |
| CC1N-An | | 0,05 … 20,00 | 0,01 | | 3426601 |
| CN11H-An | absence of free chlorine | 0,005 … 2,000 | 0,001 | | 3326620 |
| CN11N-An | | 0,05 … 20,00 | 0,01 | | 3326621 |

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## Accessories: Sensores with mV Signal

| Typ: | Measured variable: | Measuring range: mg/l | Resolution: mg/l | Slope: | Item number: |
|---|---|---|---|---|---|
| MST1H-An | chlorite | 0,05 … 2,00 | 0,01 | | 3326420 |
| MST1N-An | | 0,05 … 2,00 | 0,01 | | 3326421 |
| CD42H | chlorine dioxide | 0,005 … 2,000 | 0,001 | | 3326450 |
| CD42N | | 0,05 … 20,00 | 0,01 | | 3326451 |
| CD42H-An | | 0,005 … 2,000 | 0,001 | | 3326455 |
| CD42N-An | | 0,05 … 20,00 | 0,01 | | 3326456 |
| CD7H | | 0,005 … 2,000 | 0,001 | | 3326049 |
| CD7N | | 0,05 … 20,00 | 0,01 | | 3326044 |
| CD7H-An | | 0,005 … 2,000 | 0,001 | | 3326560 |
| CD7N-An | | 0,05 … 20,00 | 0,01 | | 3326561 |
| CD10H | | 0,005 … 2,000 | 0,001 | | 3426200 |
| CD10N | | 0,05 … 20,00 | 0,01 | | 3426201 |
| CD10H-An | | 0,005 … 2,000 | 0,001 | | 3426210 |
| CD10N-An | | 0,05 … 20,00 | 0,01 | | 3426211 |
| CD10MA20-M12 | | 0,01 … 20,00 | 0,01 | | 3426233 |
| AS2H-CD | | 0,005 … 2,000 | 0,001 | | 3326154 |
| AS2N-CD | | 0,03 … 20,00 | 0,01 | | 3326150 |
| AS2H-CD-An | | 0,005 … 2000 | 0,001 | | 3426800 |
| AS2N-CD-An | | 0,03 … 20,00 | 0,01 | | 3426801 |
| AS3H-CD | | 0,005 … 2000 | 0,001 | | 3326164 |
| AS3N-CD | | 0,03 … 20,00 | 0,01 | | 3326160 |
| AS3H-CD-An | | 0,005 … 2000 | 0,001 | mV/ppm | 3426850 |
| AS3N-CD-An | | 0,03 … 20,00 | 0,01 | | 3426851 |
| BR1H | free bromine | 0,005 ... 2,000 | 0,001 | | 3326526 |
| BR1N | | 0,05 ... 20,00 | 0,01 | | 3326525 |
| OZ12H | ozone | 0,005 ... 2,000 | 0,001 | | 3426540 |
| OZ12N | | 0,05 ... 20,00 | 0,01 | | 3426541 |
| OZ12H-An | | 0,005 ... 2,000 | 0,001 | | 3426480 |
| OZ12N-An | | 0,05 ... 20,00 | 0,01 | | 3426481 |
| OZ7H | | 0,005 ... 2,000 | 0,001 | | 3326054 |
| OZ7N | | 0,05 ... 20,00 | 0,01 | | 3326055 |
| WP7H | hydrogen peroxide (furthermore on request) | 0 ... 200 | 0,1 | | 3326480 |
| WP7N | | 0 ... 2000 | 1 | | 3326481 |
| WP7H-An | | 0 ... 200 | 0,1 | | 3326482 |
| WP7N-An | | 0 ... 2000 | 1 | | 3326483 |
| WP10H | | 0 ... 200 | 0,1 | | 3326490 |
| WP10N | | 0 ... 200 | 1 | | 3326491 |
| PES7H | peracetic acid (furthermore on request ) | 0 ... 200 | 0,1 | | 3326062 |
| PES7N | | 0 ... 2000 | 1 | | 3326060 |
| PES7L | | 0 ... 20000 | 10 | | 3326064 |
| PES7H-An | | 0 ... 200,0 | 0,1 | | 3226200 |
| PES7N-An | | 0 ... 2000 | 1 | | 3226201 |
| PES7L-An | | 0 ... 20000 | 10 | | 3226202 |

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