

## DUAL-CHANNEL ON-LINE DISSOLVED OXYGEN METER

### MARK® 409

Is a dual-channel meter for continuous measurements of low-level (ppb) dissolved oxygen concentration and temperature of water and aqueous solutions.

- 2 channels**  
 Programmable ranges of measurements for each channel.  
 Independent measurements in two points.
- Convenience and accuracy of measurement, minimum maintenance**  
 Automatic temperature and barometric pressure compensation.  
 Automatic one-point calibration in air.
- Long-lived sensor**  
 Lifetime of the oxygen sensor is min. 10 years.
- Possibility of placing the converting unit on the remote distance from the point of control**  
 Sensor cable length up to 100 m.
- Communication with external devices**  
 2 galvanic isolated current outputs 0–5/4–20/0–20mA.  
 RS 485 galvanic isolated port.  
 Programmable setpoints for each channel.
- Durable aluminum case IP65**  
 Instrument is protected from dust and moisture.
- Graphic LCD display with backlight**  
 Easy input of all parameters by keypad.



#### SPECIFICATION

	Measuring range	Resolution	Accuracy
DO concentration, ppm	0–20 <sup>1</sup>	0,0001	±(0,0027 + 3,5% of measured value)
Temperature, °C	0–70*	0,1	±0,3
*automatic temperature compensation range, <sup>1</sup> programmable			
Mounting	Wall	Panel	
Dimensions, mm	266*170*95	252*146*100	
Weight, kg	2,60	2,60	
Power supply	220 V, 50 Hz /10 V·A		

#### ENVIRONMENT REQUIREMENTS

Temperature, °C	0–70
Sample flow rate through a flow-stabilizing module, dm <sup>3</sup> /min	0,07–5
Sample flow rate at the hydraulic panel input, dm <sup>3</sup> /min	0,08–5

Hydraulic panel HP 409 provides stabilization, filtration, indication of the sample flow and temperature protection  
 Hydraulic panel HP 409 is recommended for use with a large number of impurities, primarily of iron oxides

The company reserves the right to make changes into the products configuration without their performance degradation

order information



#### BASIC KIT

Converting unit  
 DO sensor DO 409  
 with 5 meter cable  
 Spare parts kit  
 Electrolyte  
 Hydraulic panel HP 409  
 or flow-stabilizing module  
 FSM 402 M  
 Operation manual

#### OPTIONALLY

DO sensor DO 409  
 for the second channel  
 Hydraulic panel HP 409  
 or flow-stabilizing module  
 FSM 402 M  
 for the second channel  
 Extension cable up to 95 m  
 OPC-server