

Water conductivity

Technical features - MODELS



Water conductivity, temperature and level

Extremely robust sensor for measuring water conductivity and water temperature. DQA420 can also measure water level. Thanks to the four resistant and integrated titanium electrodes technology and shatterproof body, this sensor can be used in severe applications such as in purification plants and landfills.

Order numb.

Measures

DQA410 (1)

Water Conductivity
+Temperature

DQA420 (2)

Water Conductivity
+Temperature +Level

Common features

Conductivity	<i>Principle</i>	N.4 electrodes (additional N.2 electrodes for measurement control)
	<i>Measurement range</i>	0÷100,000 µS/cm
	<i>Accuracy</i>	<80,000 µS/cm: ± 0.5% VL + 1 µS/cm >80.000 µS/cm: ± 1.0% VL
	<i>Resolution</i>	0,1 µS/cm
	<i>Temperature compensation</i>	Yes
	<i>Calibration</i>	1 year, when used in clear water
	<i>Parameters (Programmable multiple outputs using RS485 Modbus, SDI-12 signal outputs. Only one selectable output using 4÷20 mA signal output)</i>	- Conductibility - Specific conductivity (against reference temperature) - Salinity: 0÷42 PSL - Total Dissolved Solids (TDS): 0÷82 PPT - Resistivity (reverse of Conductibility): 0÷200.000 Ohm - Water Density (DQA420 only): 0,98÷1,14 g/cm ³
Temperature	<i>Measurement range</i>	-5÷50°C
	<i>Accuracy</i>	±0,1°C
	<i>Resolution</i>	0,01°C
Level (DQ420 only)	<i>Measurement range</i>	0÷11 m
	<i>Accuracy</i>	±0,05%
	<i>Resolution</i>	0,005% FS
	<i>Long term stability</i>	<0,1% FS
General informations	<i>Material</i>	Sensor body: Titanium Cone: Delrin Conductivity cell: PVC
	<i>Output</i>	RS485/Modbus, SDI-12. 4-20 mA (only one parameter)
	<i>Power supply</i>	8-6 Vdc (15 mA), Battery 3,6 V
	<i>Battery duration</i>	5 years
	<i>Connector</i>	MG2410 (to be purchased with the cable)
	<i>Long term stability</i>	<0,1% FS

Accessories

*Attention: the connector assembly and cable length must be ordered together with the sensor

Order numb.

MG2410

Water-proof connector for DQA410-420 sensors *

MN1410

Cable for DQA410 sensor (each meter) *

MN1420

Cable for DQA420 sensor (each meter) *