

CONDUCTIVITY, LEVEL AND TEMPERATURE SENSOR

Description

Gestecno's high-precision multiparameter probes measure conductivity, temperature, and water depth simultaneously. dependencies and nonlinearity are automatically Temperature calculated using a compensate temperature mathematical model from the integrated microcontroller.

In its relative version, a small tube inside the connecting cable connects the sensor's reference chamber to the atmosphere, so that any variations in ambient pressure act simultaneously on both the piezometric surface and the reference chamber: this allows only the piezometric pressure to be measured and therefore the water level.

The connecting electric cable, being self-supporting, is fixed to the piezometer casing, allowing it to be inserted and retrieved without problems.

The compact and robust stainless steel construction and the excellent quality of the components make this multi-parameter sensor a unique instrument for controlling and monitoring water levels in piezometers, wells, canals, reservoirs, rivers, lakes, etc.

Data reading can be done using a portable control unit or via an automatic data acquisition system designed to perform continuous monitoring.

Applications

- Measurement of water level, temperature and conductivity in piezometers
- Measurement of water level, temperature and conductivity in wells, tanks, cisterns
- Measurement of water level, temperature and conductivity in canals, rivers, lakes



Characteristics

- Reliability even for long-term monitoring
- High resolution and accuracy
- IP68 protection rating
- Robust stainless steel construction
- Possibility of transmitting the signal even over long distances

Technical specifications

	level	temperature	conductivity
Sensor type	piezoresistive	Pt1000	6 titanium electrodes
Cable	self-supporting in PE	self-supporting in PE	self-supporting in PE
Measuring range	3, 10, 30, 100 m of water -10...+80 °C		0.2 / 2 / 20 / 200 mS/cm
Overpressure	100% FS		
Exit signal	RS 485 Modbus	RS 485 Modbus	RS 485 Modbus
Supply voltage 5...32 Vdc		5...32 Vdc	5...32 Vdc
Total accuracy	+/-0.05% FS	+/-0.1 °C	+/-2.5% FS
Long-term stability	1 mbar		
Resolution	0.001% FS	0.01 °C	0.05% FS
Compensated temp. range 0.....+50 °C		0.....+50 °C	0.....+50 °C
Operating temperature	-20.....+80 °C	-20.....+80 °C	-5.....+55 °C
Degree of protection	IP68	IP68	IP68
Dimensions	d. 22 mm-long. 240 mm d. 22 mm-long. 240 mm d. 22 mm-long. 240 mm		
Material	316L stainless steel	316L stainless steel	316L stainless steel

Accessories and spare parts

- Electric cable cut to size

Ordering Information

CODE	DESCRIPTION
SQA-100	Level, Temp. and Conductivity Sensor

For more information:

Gestecno srl

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