

## **METEOROLOGY HYDROLOGY ENVIRONMENTAL MONITORING**

### Submersible level sensor



### **Description**

Submersible pressure transmitters are frequently used for level measurement. Thanks to the pressure measurement, the level con be determined.

The sensor consists of a piezometric transducer housed in a rugged enclosure of stainless steel. The electrical connection guarantees a protection grade IP68, which allows the sensor to be totally submersed with a pressure up to 700m of water column.

A vent tube is sealed directly to the sensing element which allows the automatic barometric pressure compensation.

The sensor can be used to monitor changes of level in tanks, canals, rivers, streams, drains, wells and aquifers.

The installation of the sensor is extremely simple in the presence of appropriate piezometric wells. For the installation in water courses it is necessary to provide a "tube housing" in order to ensure correct measurements and to prevent the sensor from damages.

The transducer requires external power supply and can be connected to an external displaydatalogger system.

#### **OPTION**

The sensor can be coupled to a data logger (or the probe head) which is very similar sensor body. This part contains the battery, the acquisition module and the connector for the connection to the PC.





Technical specifications may be varied without prior notice

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Capitale Sociale: € 100.000,00 i.v.

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# **METEOROLOGY HYDROLOGY ENVIRONMENTAL MONITORING**

## **Technical specifications**

Working principle	Piezometric measurament of differential pressure
Measuring range	0 10 m of water column (other ranges on request)
Overpressure	3 x F.S.
Accuracy	Better than 0,2% F.S. (other accuracies on request)
Temperature compensation	0 +70 °C
Electrical output	4 20mA (on two wires) 0 10V (on three wires)
Power supply	9 33 VDC (protected against polarity inversions)
Power consumption	Max. 20mA
Electrical discharge protection	According to EN 61000-4-5 (opt.)
Dimensions	Ø 24mm
Height	108mm
Weight	< 0,2 Kg (without cable)

# **Ordering codes**

Submersible level sensor - output: 420mA	PCTSL024
Submersible level sensor - output: 010V	PCTSL032
Cable for submersible level sensor with vent tube. Cable sheath in PUR	PCTSL308
Lightning protection option	PCTSL320
Anti-humidity filter	PCTSL319
Submersible level and temperature sensor with outputs: 4-20mA	PCTSL036
Submersible level sensor with 420mA output witch ATEX intrinsic safety	PCTSL314

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