


Submerged level sensor : CNR

1. Safety instructions

 : WARNING : If the sensor is used in an unspecified manner, the protection it provides may be compromised.
Details of symbols and safety markings are provided on the last page of this documentation (§6)

2. Characteristics

Measuring range	0 – 50cm to 0 – 30m of water.
Power supply	Continuous 6 to 38V : observe the polarity.
Output signal	4 / 20mA
Dimensions	Ø 21.4mm +/- 0.1mm, Length = 170.5mm +/- 0.2mm
Weight	180g + 50g per meter of standard cable
Standard cable	Double wall, without capillary. Electrical shielding, 2 conductors 0,60 mm ² Ø 7 mm +/-0.5 mm, weight 50 g per meter.
Strengthened cable(Optional)	Triple wall, without capillary. Electrical shielding, 2 conductors 0,60 mm ² Ø 9 mm +/-0.5 mm, weight 100 g per meter.
Standards : (CE marking) (ACS)	EN61000-6-2 - EN61000-6-3 - EN61010-1 - EN62479 –EN50581. Certificate of sanitary conformity
According to ISO 4373	Physical principle of the instrument: pressure measurement by immersion Maximum variation speed : not applicable Response time: 150 ms Performance class: 2 Performance class, full scale < 1m : 3 Performance class, full scale >= 1m : 2 Temperature class: 2 Relative humidity class: 1 IP classification: IP68 Compatibility with drinking water: yes (ACS) Compatibility with explosive environment: no



3. Installation and usage precautions.

The CNR probe is a level measurement sensor for unloaded water. It must be immersed directly in a tank, or in a surge pipe if used in flowing water.

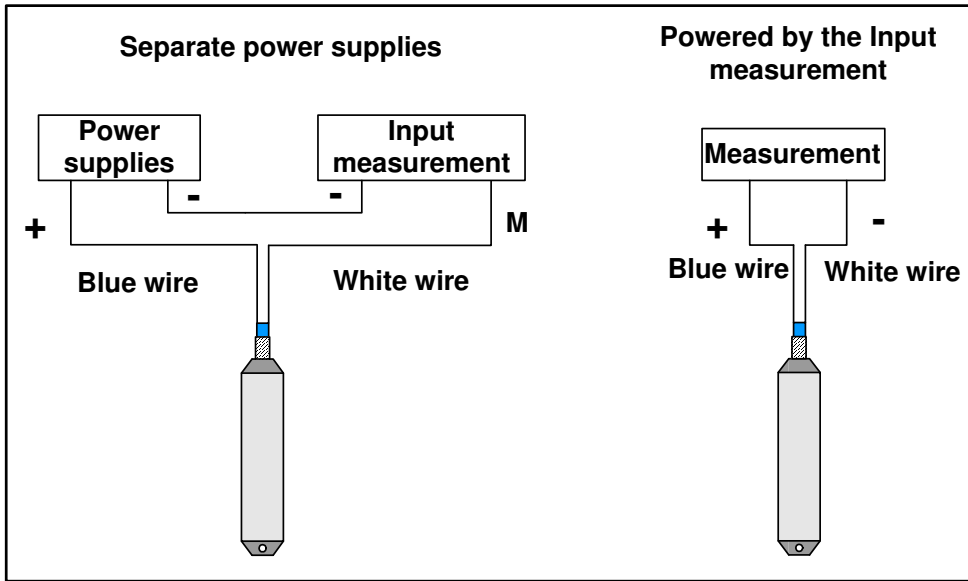
The venting of the pressure sensor through the cable requires installation precautions:

- Suspend with clamp clamping provided.
- Make sure that the end of the cable is at atmospheric pressure and it will never be submerged.
- Do not hurt or drill cable
- Install the cable in a sheath sheltering it from solar radiation
- In its use, the CNR sensor should not be exposed to frost
- Avoid the "aggressive" cleaning of the sensor. (High pressure)

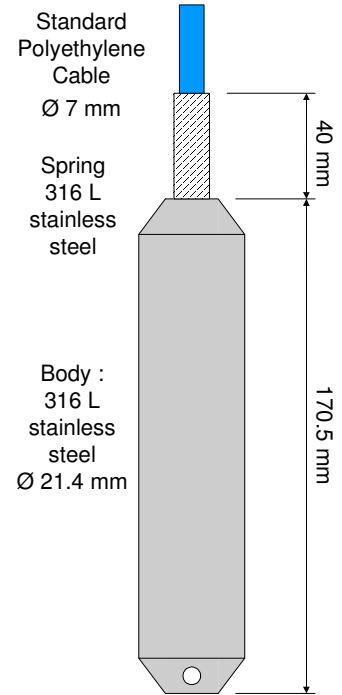
NOTE : The use of kevlar support rope, included in the strengthened cable (option CABFOR), involves, before immersing the sensor, tying the rope at a fixed point and positioning the cable clamp on the cable in its final position.

4. Connections.

The supply of the 4/20mA loop should be limited to 1A.



5. Volume



5. Safety symbols and markings

- : Risk of danger : Important information. Refer to the instructions.
- : Read the instructions.
- : Complies with the European Union and EFTA directives.
- : European directive 2002/96/CE of 27 January 2003, concerning waste electrical and electronic equipment (WEEE Directive) has been transposed in France by Decree No. 2005-829 of 20 July 2005. Electrical or electronic appliances, as well as their spare parts and consumables must never be disposed of in domestic waste.

PARATRONIC has undertaken to set up an Individual Collection System. Customers (end users) are requested to return **PARATRONIC** electrical and electronic equipment waste to the following address:

PARATRONIC - Zone Industrielle - Rue des Genêts, 01600 REYRIEUX, France.
WEEE Recycling Department

Signal 4-20 mA

Full scale set at : defEchelle M.

The cable length: defCable M.

CALIBRATION PROBE N° NUM_SERIE

HEIGHT	PRESSURE	CURRENT
0 m	0 bar	def4 mA
defHdemi m	defPdemi bars	def12 mA
defHmaxi m	defPmax bars	def20 mA

The manufacturer reserves the right to modify the characteristics described in this document without notice.