



C300.001TC, C300.10TC Stainless Steel Conductivity Sensor

INSTRUCTION MANUAL

EN 09-10

1. General data

These special sensors are particularly suitable for conductivity measurement in applications where stainless steel is requested as material in contact with fluid.

Sensors are completely sealed and consist on:

- _ a double coaxial electrodes conductivity cell,
- _ a Pt1000 temperature sensor with 3 wires connections,
- _ cable connection wires are marked by different colours.

2. Technical features

Wetted Materials :

Sensor Body: Stainless Steel AISI 316L

O-ring : EPDM

Temperature@Pressure: 100°C @ 7 bars (installed in PP fitting);
100°C @ 34 bars (installed in SS fitting);
120°C @ 13 bars (installed in SS fitting).

Cable : 3 meters of shielded cable with 5 wires

Cell constant: 0,01 ; 10,0

3. Installation

Conductivity sensor should be installed properly to gain best performances.

It should obey these rules:

- _ sample in contact with sensor should be representative of fluid to measure;
- _ liquid should continuously flow through the cell;
- _ flow rate should avoid cavitation phenomena;
- _ cell mounting should be so that an air bubbles presence is avoided on electrodes surface;
- _ solid sediments shouldn't accumulate into space between electrodes dedicated to measurement;
- _ it should verify that temperature and pressure conditions are obeyed.

4. Electrical connections

Conductivity sensor have to be connected to C5.02 monitor/controller in the following way:

WHITE wire should be connected to 11 position
 BLACK wire should be connected to 10 position
 CLEAR wire shouldn't be connected
 RED-TC wire should be connected to 9 position
 GREEN-TC wire should be connected to 8 position

You have to make a bridge between 8 position and 7 position.
 It's important to avoid to interrupt cable along its whole length.

5. Maintenance

This type of sensor doesn't require particular operations for maintenance except for the eventual cleaning of the electrodes.

Dimensional Data Table			
Model n°	"A"	"B"	"C"
C300.001TC	2"	5,25"	3,5"
C300.10TC	0,5"	9,1"	7,6"

