

PC Turbidity / TSS System



Features & Benefits

Potence Controls PCTUS Turbidity / TSS System is an excellent choice for a wide range of applications like Urban wastewater treatment ; Sanitation network; Industrial effluent treatment; Surface water monitoring and Drinking water.

Turbidity sensors are optical sensors. The sensor measurement principle is based on the IR light method dispersed at 90° (ISO 7027). The measurement is carried out in the Infrared range.

The sensor is calibrated in the factory, so there is no need to perform calibration during initial commissioning. All data regarding calibration, logs, users and measurements are processed directly in the sensor allowing for extremely reliable and traceable measurements.

- Infra-Red Nephelometry measurement
- Range : 0 to 4000 NTU or 0-4500 mg/L
- Robust and Waterproof (IP 68)
- Controller with two digital sensor inputs.
- Backlit Display
- Password Protected Access
- Real time clock with Battery backup.

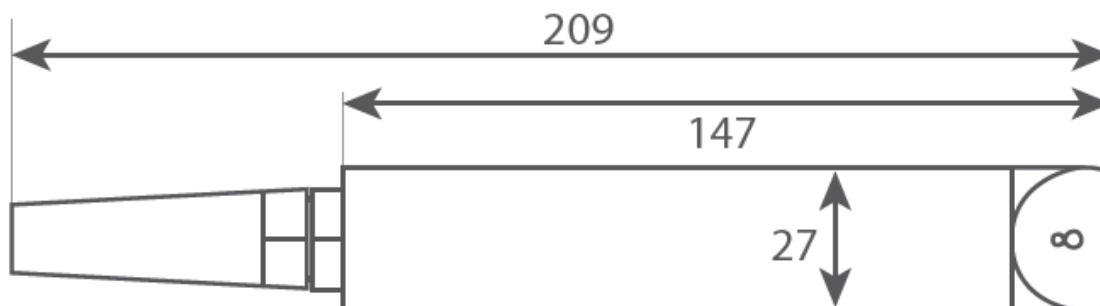
Sensor Specifications

- Measurement Principle : IR light method dispersed at 90° (ISO 7027).
- Measurement Range : Turbidity: 0 to 4000 NTU
TSS : 0 to 4500 mg/L
- Wetted, Body Material : PVC Body
- Accuracy : < $\pm 5\%$ of the reading
- Resolution : 0.01 to 1 NTU-mg/L
- Max. Refreshing Time : < 1 second
- Working Temp. Range : 0 to 50 °C
- Max. Pressure : 5 Bar
- Sensor Cable : Standard 7 Meter

Controller Specifications

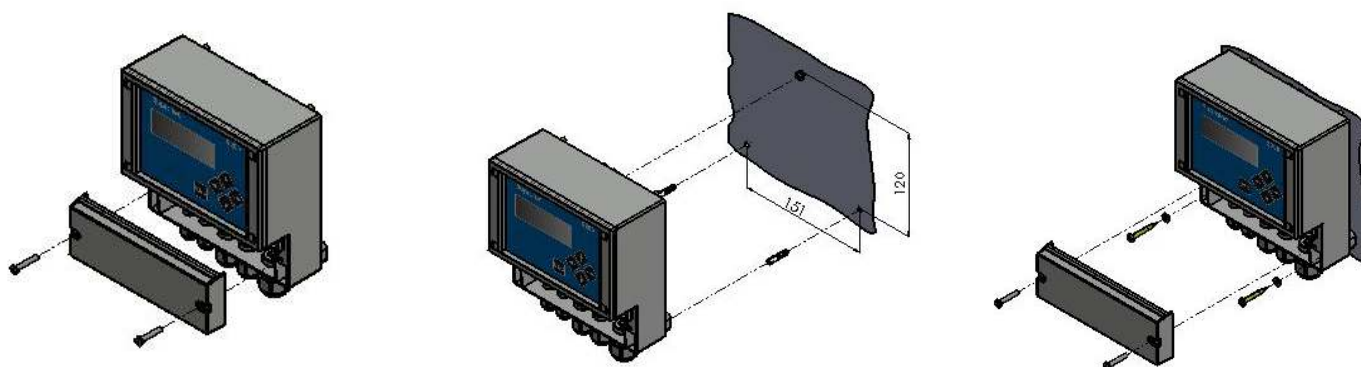
- Measurement : 2 Nos. ; Digital Sensor Inputs
- Display : Backlit LCD Screen 4*20 Characters ; 5 Directional Keys
- Power Requirements : 110 VAC / 230 VAC ; $\pm 10\%$; 50 / 60 Hz
- Operating Conditions : -20 to 55 °C
- Storage Conditions : -20 to 65 °C
- Analog Output Signal : 2 Nos. ; 0 / 4-20 mA Isolated ; Max. Load 500 Ohms.
- Relays : 3 Nos. ; Electromechanical SPST ; 6 A ; 250 VAC Max.
- Controller Type : P, PI and ON/OFF Controller
- Digital Inputs : 2 Nos. ; For Pulse Input or Switching Input
- Digital Outputs : 2 Nos. ; Dry Contact Potential Free ; 12 V ; 200 mA
- Calibration Methods : 2 Point Calibration
- Memory : Battery Back up
- Enclosure : IP 65
- Enclosure Mounting : Wall, Panel
- Dimensions : H*W*D (160*165*85)
- Weight : App. 1.1 Kg.

Sensor Dimensional Drawing



All dimensions are in mm.

Controller Installation Dimension



Ordering Information

Model Number :

- PCTUS** : Turbidity / TSS System comprises of Turbidity / TSS Sensor model (PCTU) with 7 Meter Cable and Controller model (PC200)
- PCTU** : Turbidity / TSS Sensor ; Range : Turbidity : 0-4000 NTU ; TSS : 0-4500 mg/L ;PVC Body ; Modbus RS485 O/P; 7 Meter Cable
- PC200** : Turbidity / TSS Controller ; 110 /230 VAC ; 4-20 mA Output ; Relays

In the interest of improving and updating , PCPL reserves the right to alter specifications at any time.