Prochista

Smart Technology

Flow Meter

(with ethernet transmitter)

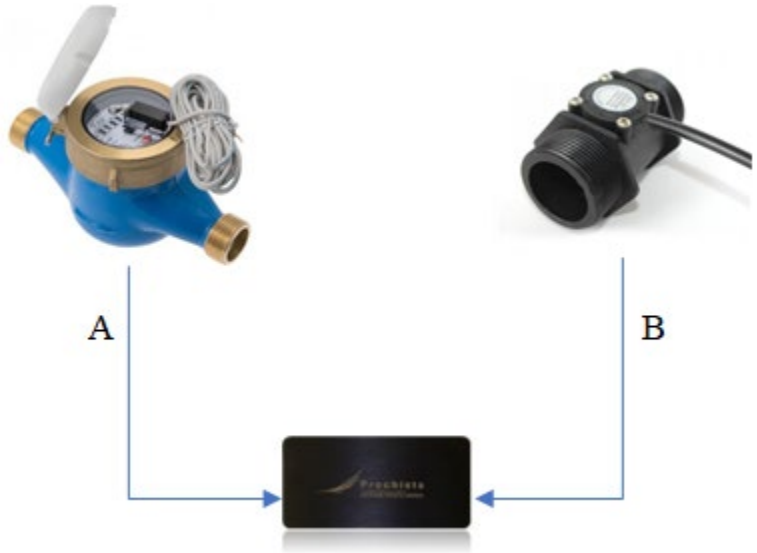
Part No. PCT-EH05DFM0143

Document No. 960705143-1/1

Fuel Level Sensor can be used for Gas water heater, Water vending machine, Drinking water purification, Reverse osmosis (RO) system, Household water heating system, Solar Water Heating system, etc.

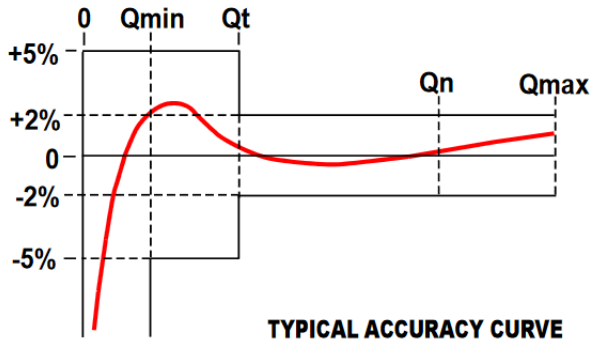
Using SNMP this sensor can be integrated with many different tools such as Schneider, Emerson, Prochista DCM, IO, Nlyte, iTracs, HP OpenView, IBM Tivoli, CA, BMC, odius, MRTG, Cacti, Nagios, Zenoss, ManageEngine, Ipswitch WhatsUp, Paessler PRTG, Solarwinds & more.

- The unit has a built-in web server that you can access to configure, read sensor data, and define alerts.
- The unit can operate with PoE power supply for easy installation. Also you can use external 48VDC power supply if you don't have PoE enabled switch on the site.
- 2 internally bridged LAN interfaces for ring network configura=on (without using network switch).
- Designed for wall mounted and rack mounted installation.



Features:

Type A: The meters wich we offer have high precision and sensitivity according to CEE standard requirements. Their plastic and metallic parts, in particular those in contact with water, comply with current regulations and are subject to extensive checks and controls. For Specifications of model A check the Specifications table.



Type B: Water flow sensor consists of a copper body, a water rotor, and a hall-effect sensor. When water flows through the rotor, rotor rolls. Its speed changes with different rate of flow. The hall effect sensor outputs the corresponding pulse signal. Life is longer than plastic body. For Specifications of model B check the Specifications table.

- Compact, Easy to Install
- High Sealing Performance
- High Quality Hall Effect Sensor
- RoHS Compliant

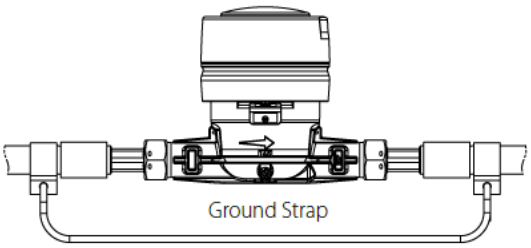
Using the supplied cable, connect the plug to the tank sensor. Connect the other end of the cable to the RS-485 terminals to the gateway.

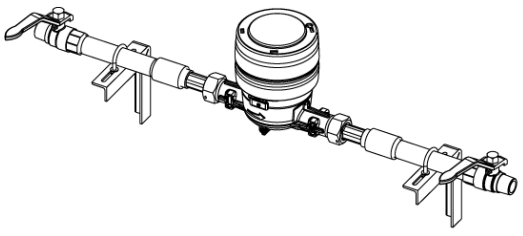
Specifications Table:

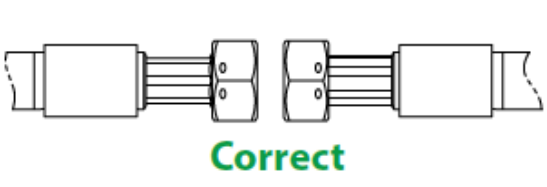
Power supply	
External power supply	48 VDC (± 10%)
Power consumption	Max 1500 mW
Network	
Protocol support	HTTP, SNMP v1,SNMP v2, SNMP v3, SNMP Trap, DHCP, DNS, ICMP
LAN Interfaces	2 x 10/100 Mbps (Internally bridged)
Power over Ethernet (PoE)	IEEE 802.3af
Max cable length	depending on cable quality up to 100m
Flow Meter Model A	
Size	1.2 inch / 13mm
Max flow (short period), Qmax	3 m3/h
Nominal flow, Qn	1.5 m3/h
Min flow (accuracy ±5%) Qmin	30 l/h
Transition flow (accuracy ±2%) Qt	120 l/h
Maximum reading	10,000 m3
roller reading for cold water	up to 30 °C
Flow Meter Model B	
Flow Rate Range	1~25L/min
Size	1.2 inch / 13mm
Frequency	F=11*Q(Q=L/MIN)
Operating Temperature	≤80°C
Liquid Temperature	≤120°C
Water Pressure	≤1.75MPa
Mini. Working Voltage	DC 4.5V
Max. Working Current	15mA (DC 5V)
Working Voltage	DC 5V~15V
Load Capacity	≤10mA (DC 5V)
Operating Humidity	35% ~ 90%RH
Insulation resistance	> 100MΩ

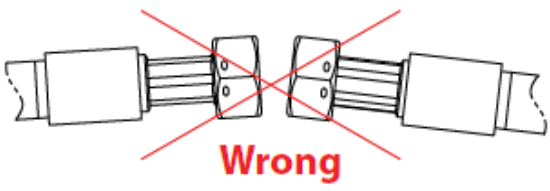
Installation

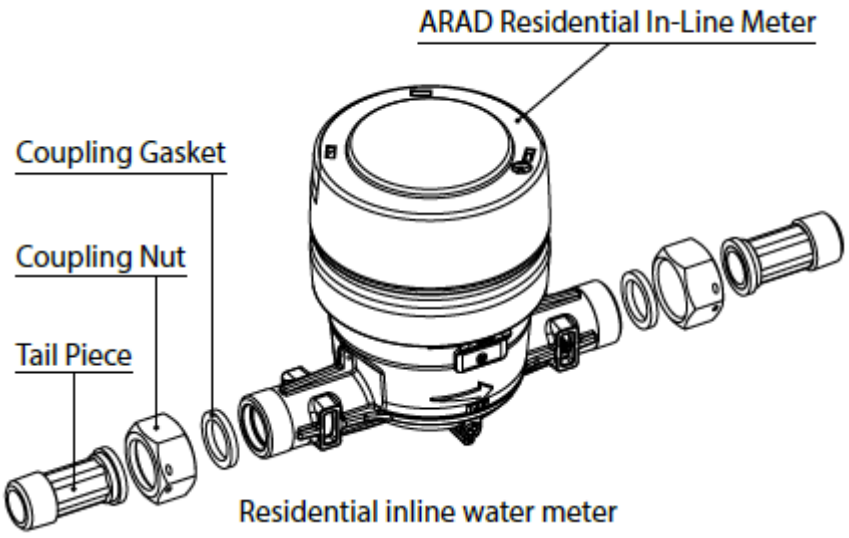
1. Service lines, valves, connections and meters must be watertight.
2. In general, install the meter horizontally in the line to obtain optimum performance. Volumetric meters may also be installed vertically or at an incline.
3. If you have high pressure you must install a pressure regulator. Most meters are rated to 16 BAR (150 psi). If you already have a pressure regulator, verify that the regulator works and is adjusted correctly.
4. Standard water meters are for cold potable water only. For hot water (temperatures greater than 50°C(120°F)), you must get a "hot water meter" which is designed with materials that will withstand heat.
5. Storage temperatures shall remain within the range of -20°C to +60°C (-4°F to +140°F), avoiding direct sunlight.
6. Meters may be installed indoors or outdoors. When meters are installed outdoors, they should generally be located in a meter box. The box should have ample clearance around the meter to avoid damage or strain to the service piping and meter.
7. The service pipe entering and exiting the meter box should be properly bedded to insure that it is not axially misaligned. Ensure that pipe alignment is maintained so that the service pipe or meter will not be damaged by eventual ground shifts.











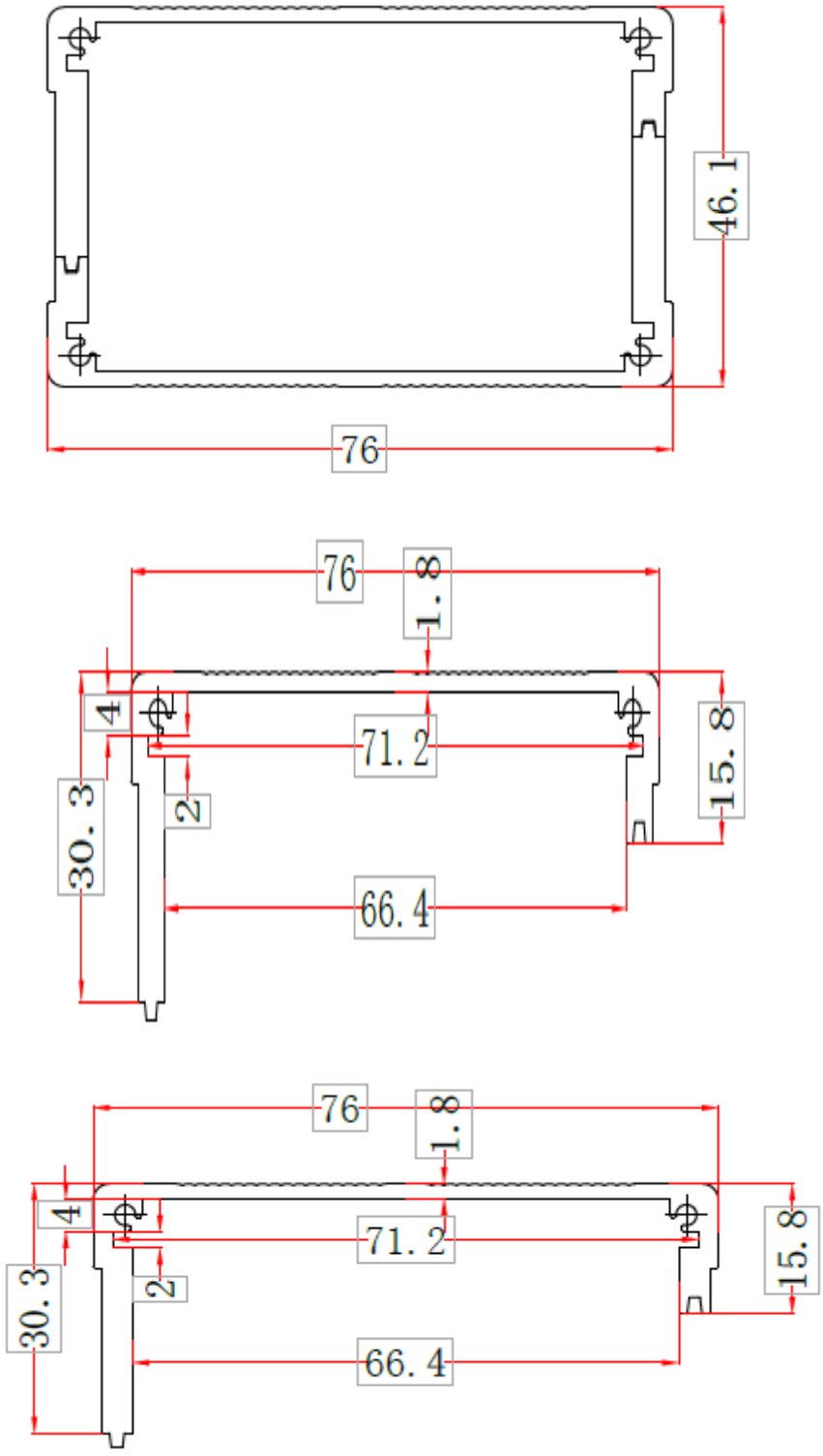
Configuration

For configuring the unit simply login into unit's webpage, by default the unit boots in static IP mode .The unit's default IP is "172.16.0.1", default Username is "admin" and default Password is "prochista".

Note: For reloading default settings, hold the reset button on power up for at least 3 seconds (reset button is located behind the unit)

Mechanical Dimension

Box dimensions:



Type B Dimentions: