



Fuel Level Transmitter (FUELTRANCE 5100 SERIES)

PRINCIPAL

Capacitance Level Sensor/Transmitter (FUELTRANCE) is a compact, low cost microcontroller based level transmitter with analogue output designed to measure the level of various non viscous, non conductive fuel oils, such as Diesel. Measuring range is 0.2 to 2.5 M for rod probe version. The probe forms an electrical capacitor with the grounding still well, provided on the sensing rod. An initial capacitance exists between the electrode and the steel well. When the probe become covered with material to be measured the capacitance will increase and change will be measured and converted into an analogue output signal proportional to the level change.

Features

- Fast and Easy Installation
- Pre calibrated for each probe length (sight calibration possible, easy).
- No effect of turbulence in the tank.
- High Reliability
- Suitable for the highly dusty environment.
- Provides economical solutions.

Applications

- Fuel Level Sensor capacitance fuel trance is designed for diesel.
- Fuel Level measurement in fuel tank of vehicles and stationary units.
- Liquid Applications : Oil, Diesel, etc.

Parts

The parts of Fuel level Transmitter are explained in figure 1. All dimensions are in millimeters.

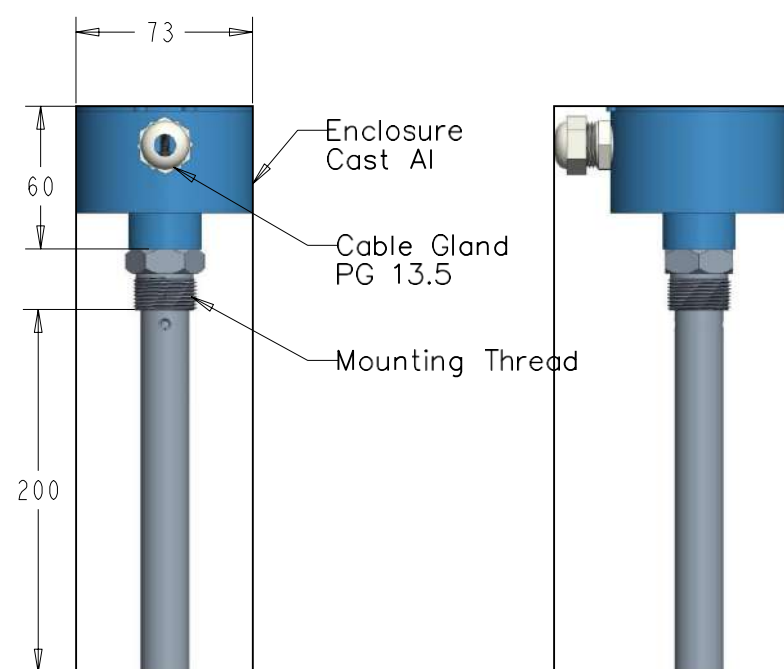


Figure 1 : Fuel Level Transmitter

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Technical Specification

Housing	: Cast Aluminum, weatherproof
Mains	: 12 V DC to 30 V DC
Current Consumption	: 20 mA (max)
Response Time	: better than 3 sec
Operating Temp.	: 20 to +60 oC
Signal Output	: 0 to 5 V DC or 10 V DC, RS485
Mounting	: Screwed 3/4" BSP or Flanged (Optional)
Range Setting	: digital Setable
Sensitivity	: standard 1.5mm
Sense	: Rod (SS 304)
Grounding	: Pipe (SS 304)
Length mm	: 200 (Standard) up to 2000

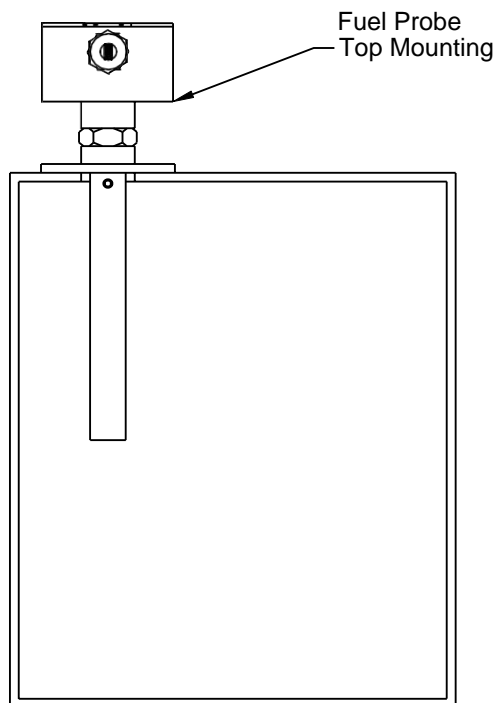


Figure 2 : Mounting Arrangement

Models

FUELTRANCE 5105 : OUTPUT 0-5 VDC (3 WIRE)
FUELTRANCE 5110 : OUTPUT 0-10 VDC (3 WIRE)
FUELTRANCE 5120 : OUTPUT 4-20 mA (2 WIRE)
FUELTRANCE 5158 : OUTPUT Rs485 (4 WIRE) & 0-5 VDC

Model Selection

FUELTRANCE						
Enclosure (E)						
1 - Weatherproof IP-65 2 - Flameproof						
Temperature (T)						
1 -Standard Temperature Up to 80°C 2 -High Temperature max 200°C						
Probe Length (PI)						
1 -Standard Probe Length 200 mm 2 -Extended Probe Length Up to 2000 mm 3 -Special						
Mounting Arrangement (M)						
1 - Threaded BSP 2 -Flanged ; O - Others						
Wetted Part (W)						
1 - SS304 2 - SS316 3-Others						
Output (O)						
1 - 0 - 5 VDC (5105) 2 - 0-10 V (5110) 3 - RS485 (5458)						
FUELTRANCE	E	T	PI	M	W	O
5100	1	1	2	1	2	1