

T/LL25X Series Liquid Level Sensor



The **T/LL250** series is designed for use in vented tanks requiring continuous level measurement of their contents and provides a factory set linear voltage or 4-20 mA output suitable for connecting into a PLC or process related applications. (The **T/LL250** is not a loop powered sensor).

The device has no moving parts and utilises hydrostatic technology incorporating a pressure transducer to measure the height of liquid. The flexible tube allows the sensor to be fitted easily and to tanks where a swing arm device is not practical.

Available in multiple lengths upto 10m and re-calibratable by end user. Units supplied will be calibrated for diesel.

SPECIFICATION

Liquid Types

Liquids compatible with the construction materials typically; diesel, kerosene, petrol, water.

Dimensions

Liquid Depth Diesel: Min. 400 mm, Max. 10,000 mm
Liquid Depth Water: Min. 400 mm, Max. 8,400 mm
Threads: 1" BSPT, 1" NPT

Electrical

Supply Voltage: 9-32 VDC (Voltage output), 18-32 VDC (Current output)
Supply Current: 30 mA
Supply Protection: Over-voltage 80 VDC for 2 minutes. Reverse polarity.
Signal Output: Current Range. 4-20 mA. Max. 250 Ω load.
 Voltage source range. 0-5 V. Max. 10 ma.
Alarm Output: Switch to ground. Max 100 mA. 12.5% of full level.
 Voltage T/LL250 version only

(TLL250 only)

Connections: 4 Way Delphi Packard Metri-Pack 150 Series.
Mating Connector: Rochester Sensors **C/K1** (Delphi Packard Metri-Pack 150)
 To fit 0.8-1.0 mm² conductor, Ø1.6-2.15 mm sleeve.

Performance

Accuracy: ±1.6% for 2000 mm fluid depth @ 25 °C

Materials

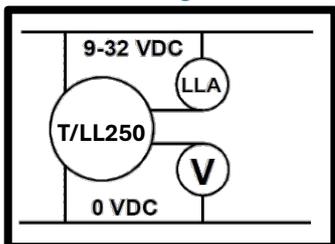
Enclosure: 30% Glass Filled Nylon
Gland: Nylon
Sensor Tube: Polyurethane
Sensor Body: 316 Stainless Steel
Retaining Clip: 304 Stainless Steel
Wetted Seals: Fluorosilicone (FVMQ)

Environmental Ratings

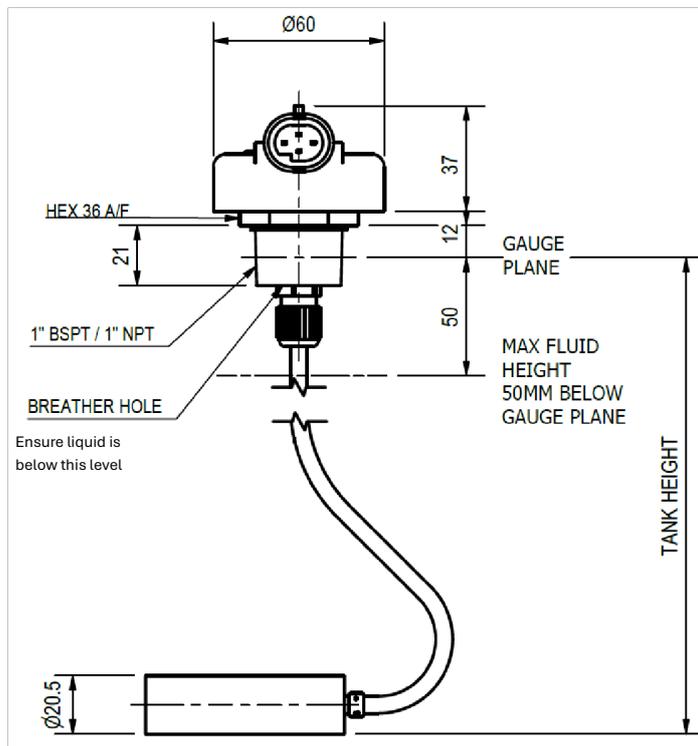
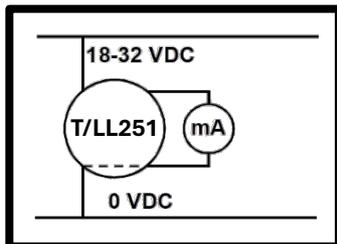
Sealing: IP67 with mating connector above tank surface (excluding tank venting hole).
Operating Temp: -20 °C to +85 °C
Vibration: 4.3 Grms BS EN 60068-2-64:2008
Weight: 300g (1m long sensor)

Wiring Schematic

TLL250 Voltage (0-5V)



TLL251 Current (4-20mA)



Part Number Key

Model Variant		Max Liquid Height*		Thread size	
T/LL25	X		XX		X
Voltage 0-5V	0	1m	01	BSPT	B
Current 4-20mA	1	2m	02	NPT	N
		3m	03		
		"	"		
		10m	10		

*Product supplied 400mm longer than Max Liquid height to ensure it lies flat on the tank base.



Rev 01 - 05/09/2024