

# 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 mm<sup>2</sup> conductor, Ø1.6-2.15 mm sleeve.

### Performance

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

### Materials

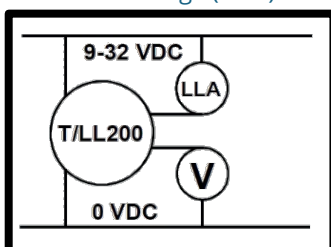
**Enclosure:** 30% Glass Filled Nylon  
**Gland:** Nylon  
**Sensor Tube:** Polyurethane  
**Sensor Body:** 316 Stainless Steel  
**Retaining Clip:** 304 Stainless Steel  
**Wetted Seals:** Fluorosilicone (FVMQ)

### Environmental Ratings

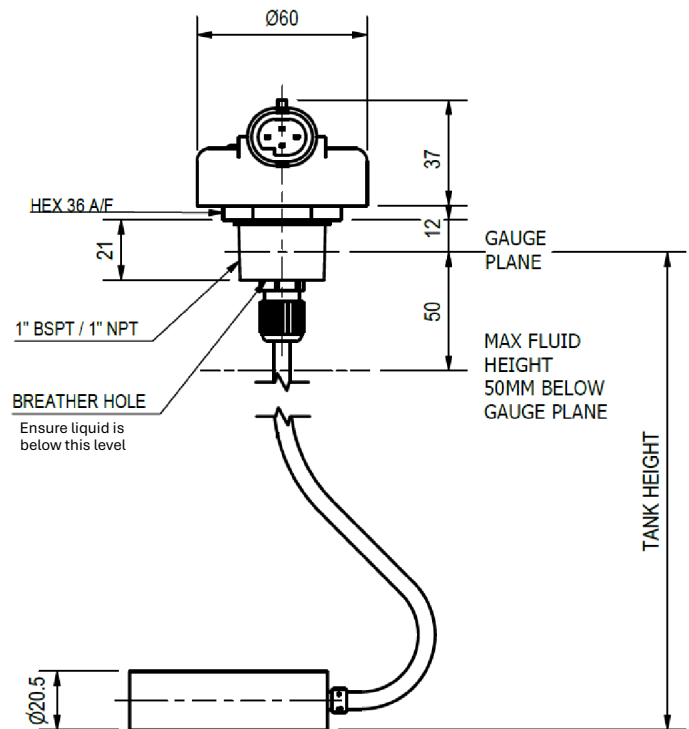
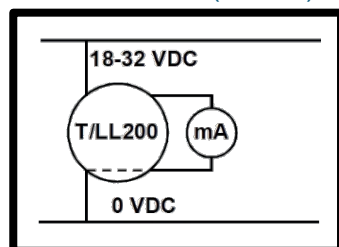
**Sealing:** IP67 with mating connector above tank surface (excluding tank venting hole).  
**Operating Temp:** -20 °C to +85 °C  
**Vibration:** 4.3 Grms BS EN 60068-2-64:2008  
**Weight:** 300g (1m long sensor)

### Wiring Schematic

TLL250 Voltage (0-5V)



TLL251 Current (4-20mA)



## Part Number Key

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

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



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