

TLL150 Fuel Level Sensor - Cut-to-Length and Calibrate



The **T/LL150** fuel level sensor is designed for use in diesel fuel tanks and is available with a variable resistive or voltage output suitable for driving industry standard fuel gauges or connecting into PLCs.

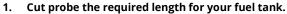
This capacitance type level sensor is supplied in standard lengths and is designed to be cut-to-length and calibrated by the customer making it ideal for custom and urgent projects.

SPECIFICATION

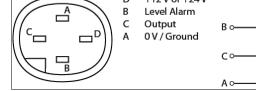
Liquid Types: Liquids compatible with constructions materials, typically diesel, biodiesel, kerosene, petrol. Not suitable for fuels with high dielectric constant.

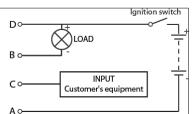
Dimensions					
Probe Lengths:	500mm, 1,000mm for cutting to length by customer.				
Threads:	½" BSPT, 1" BSPT, ½" NPT				
Optional Flange:	SAE 5 Hole: Rochester Sensors F/T1 for ½" BSPT Rochester Sensors F/T8 for ½" NPT				
	RUC	THESTER SETISOIS F/10		Ø60	31
Performance				000	-
Accuracy:	±2% of depth @ 20 °C HEX				
Materials			36		
Enclosure:	30% glass filled nylon	Internal Space	ers: Polypropylene		CALLER
Internal Electrode:	Aluminium alloy 6063	End plug:	PVC / G/F nylon	51	
Sensor Tube:	316 stainless steel	Wetted Seals:	Viton, NBR		IAX.
Environmental Ratings					LEVEL
Sealing:	IP67 with mating con	nector Shock:	50 g, 6.3 ms		
Max Pressure:	1 bar	Vibration:	7.6 Grms		
			BS EN 60068-2-64:1993		
Operating Temp:	-20 °C to +85 °C	Weight:	300 g (1 m long sensor)		PROBE LENGTH
Electrical					N. O.
Supply Voltage:	9-34 VDC				<u> </u>
Supply Current:	30 mA				BE
Supply Protection:	Over-voltage 80 VDC for 2 minutes.			Ø12	SRC SRC
	Reverse polarity.				_
Signal Output:	Resistance range;	0-250 Ω or 250-	-0 Ω, 2 Ω steps, 0.4 W max.		
	Voltage source range;	0-5 V or 5-0 V, 2	20 mV steps, 10 mA max.		
Alarm Output:	Switch to ground, close on fall at 12.5% of active length. Max 100 mA.				EMPTY
Connections:	4 Way Delphi Packard Metri-Pack 150 Series.				
Mating Connector:	Rochester Sensors C/KT (Delphi Packard Metri-Pack 150)				
	To fit 0.8-1.0 mm ² cor	ductor, Ø1.6-2.15 m	m sleeve.		
			Pin Cor	nection	Ignition switch
Summary of Cutting a	nd Calibration Instruc	tions	D +12	2 V or +24 V Do	~+

Units will be supplied calibrated for diesel.



- 2. Calibrate the Empty Point:
 - 2.1. Start with the probe disconnected from power.2.2. In air, for the min. empty level, or in fuel at the required level.



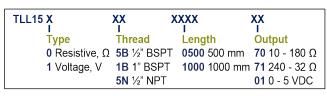


- 2.3. Depress "CAL" button then reconnect power keeping the calibration button depressed.
- 2.4. Continue to depress for a further 10 seconds this sets the empty point. Release the button.

3. Calibrate the Full Point:

- 3.1. With the probe connected to power.
- 3.2. Place the sensor in fuel to the required full point.
- 3.3. Depress "CAL" button. Hold for 10 seconds to set full point. Release button.

4. Check the outputs for full and empty points.



3.11 rev 4

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