

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.



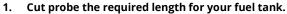
SPECIFICATION

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

Dimensions						
Probe Lengths:	500mm, 1,000mm for cu					
Threads:	1/2" BSPT, 1" BSPT, 1/2" NPT					
Optional Flange:	SAE 5 Hole: Rochester Sensors F/T1 for ½" BSPT					
	Roches	ster Sensors F/T8	for ½" NPT			
Performance				HEX		
Accuracy:	±2% of depth @ 20 °C			36 A/F	<u>- </u>	
Materials	· -				12	GAUGE
Enclosure:	30% glass filled nylon	Internal Spac	ers: Polypropyl	5 Fanal	L	PLANE
Internal Electrode:	Aluminium alloy 6063	End plug:	PVC / G/F r		MAX. ^m	PLANE
Sensor Tube:	316 stainless steel	Wetted Seals:		5	FULL LEVEL	
		welleu seals.	• • • • • • • • • • • • • • • • • • •	X		
Environmental Ratings			50 60			
Sealing:	IP67 with mating connec		50 g, 6.3 ms			
Max Pressure:	1 bar	Vibration:	7.6 Grms	1000		폰
O		14 /	BS EN 60068-2-64			PROBE LENGTH
Operating Temp:	-20 °C to +85 °C	Weight:	300 g (1 m long se	ensor)		E.
Electrical						EL
Supply Voltage:	9-34 VDC				Ø12	80
Supply Current:	30 mA				· · · · · · · · · · · · · · · · · · ·	В
Supply Protection:	Over-voltage 80 VDC for Reverse polarity.	2 minutes.				
Signal Output:	Resistance range; $0-250 \Omega$ or $250-0 \Omega$, 2Ω steps, $0.4 W$ max.					
	Voltage source range;	0-5 V or 5-0 V, 2	20 mV steps, 10 mA i	max.	MIN. EMPTY	
Alarm Output:	Switch to ground, close on fall at 12.5% of active length. Max 100 mA.				LEVEL	N
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 ² conductor, Ø1.6-2.15 mm sleeve.					
				Pin Connection	lc	gnition switch

Summary of Cutting and Calibration Instructions

Units will be supplied calibrated for diesel.



- **Calibrate the Empty Point:** 2.
 - 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.
 - R Ao

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.

Calibrate the Full Point: 3.

- 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.

Check the outputs for full and empty points. 4.

Standard part numbers and options:

+12 V or +24 V

Level Alarm

0V/Ground

Output

D

В

С

Α

Do

Bo

CO



3.11 rev 4

LOAD

INPUT

Customer's equipment

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Since the suitability of these products depends upon a wide range of factors not in our control, Rochester Sensors UK Limited expects and understands that you will conduct the testing and evaluation necessary to determine that these products are suitable for your application. Whilst every effort is made to ensure the above details are correct at the time of

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