

T/LL350 Liquid Level Sensor



T he **T/LL350** series is a range of highly advanced sensors for continuously measuring the contents of a tank. The unique feature of the T/LL350 is that it auto compensates when a liquid with a different d electric constant is used. For example, if it is used in a tank of conventional diesel, then the user c an refill with bio-diesel and the sensor will correct the output level automatically.

Options include a high/low level alarm point, fitment of any suitable connector and compensation f or non-linear shaped tanks.



SPECIFICATION

Liquid Types

Diesel, biodiesel, kerosene, petrol, water or any liquid which is compatible with the materials of construction.

Construction

Housing: Sensor tube: Wetted Materials: Die cast aluminium & stainless steel Anodised aluminium PTFE, polypropylene, Viton, aluminium & stainless steel

Max 2000 mm static applications &

9-32 VDC with 80 V over voltage protection

430 mm long 18 AWG XLPE flying leads#

1000 mm on mobile applications

15 mA@12 VDC + output load

Dimensions

Probe length:

Electrical

Supply voltage: Supply current: **Connections:**

Outputs Resistive: Resolution:

Current:

Max load:

Max Load:

Accuracy:

Voltage:

Any values between 3-500 Ω or 500-3 Ω (3 Ω Steps) 3Ω Max dissipation: 250 mW 0-20 mA, 4-20 mA **Resolution:** 20 uA 250 Ω (Including interconnecting cable resistance) Any values between 0-5 V/5-0 V 12 VDC system: 24 VDC system: Any values between 0-10 V/10-0 V Resolution: 10 mV 10 mA source (dependent on minimum supply voltage) ±2.0% of probe length @ 20 °C (+68 °F) in diesel

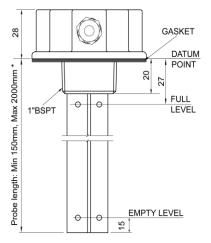
(For probes lengths 300 mm and above)

Min 150 mm

Environmental Ratings

-20 °C to +85 °C (-4 °F to +185 °F) **Operating Temperature:** Sealing: IP67 Weight: 300 g (10 oz) (1000 mm long unit) Max tank pressure: 0.75 bar (10 psi) Type approval in accordance with EN ISO 13766:2006 500 mm sensor type tested to 1.88 grms to BS EN 60068-2-64:1993* Vibration: 500 ms⁻², 11 ms to BS EN 60068-2-27:1993

Ø70 Φ A PG9 CABLE SAE 5 HOLE GLAND HEADER HOLES Ø5.1 ON 54.0 PCD



* Up to 1000mm in mobile applications or up to 2000mm in static applications.

Model Variant Table	
Model No	Output
T/LL350	Resistive
T/LL351	Voltage
T/LL352	Current
T/LL353	Resistive + alarm
T/LL354	Voltage + alarm
T/LL355	Current + alarm

* Vibration Testing	
Frequency	
10	0.005
150	0.020
220	0.010
350	0.002

Options

Shock:

EMC:

Alarm: Max load:

One position at either high level (switch to ground above level) or low level (switch to ground below level). Switch point can be set between 7% and 90% of measuring range (hysteresis 5%). 100 mA. Custom empty/full points: Specific empty and full levels can be provided within the allowable measurement range of the probe. Non-linear Tanks: Compensation for non-linear tank shapes available.

Connections:

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Any suitable customer specified connector can be fitted. Terminated wire ends should be fitted with suitably sealed connectors to maintain specified IP rating

Due to 3 Ω resolution, accuracy of resistive output variants is specified accuracy ±3 Ω .

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