TECHNICAL DATA

T/LL360 Series Liquid Level Sensor Extended Temperature Range





The Model T/LL360 is an extended temperature range variant of the T/LL350 series of highly advanced sensors for continuously measuring the contents of a tank. Capable of operating at temperatures as low as -40°C the T/LL360 series auto compensates when a liquid with a different dielectric constant is used. For example, if it is used in a tank of conventional diesel, the user can refill with bio-

Options include a high/low level alarm point and fitment of any suitable

Liquid Types

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

Construction

Housing:

Die cast aluminium & stainless steel

Sensor tube: Anodised aluminium

Wetted materials:

PTFE, polypropylene, FVMQ,

fluorosilicone, aluminium & stainless steel

Dimensions

Probe length:

Min 150mm

Max 2000mm static applications &

1000mm for mobile applications

Electrical

Supply voltage:

9-32 VDC with 80V over voltage protection

Supply current: 15mA@12Vdc + output load

Connections: 430mm long 18AWG XLPE flying leads#

Outputs

Resistive: Resolution:

Any values between 3-500 Ω or 500-3 Ω (3 Ω Steps)

30

Max dissipation: 250mW Current:

0-20mA, 4-20mA

Resolution: 20uA 250Ω (Including interconnecting cable resistance)

Max load:

Voltage:

12VDC system:

Any values between 0-5V/5-0V 24VDC system:

Resolution:

Max Los

Accuracy:

Any values between 0-10V/10-0V 10mV 10mA source (dependent on minimum supply voltage)

±2.0% of probe length @ 20°C (+68°F) in diesel

(For probes lengths 300mm and above)

Environmental Ratings

Operating Temperature:

Sealing:

Weight:

Max tank pressure:

FMC:

Vibration: Shock:

-40°C to +85°C (-40°F to +185°F) **IP67**

300g (10oz) (1000mm long unit)

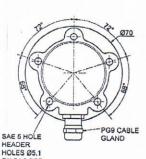
0.75 bar (10 psi) Type approval in accordance with EN ISO 13766:2006

500mm sensor type tested to 1.88grms to BS EN 60068-2-64:1993*

500ms⁻², 11ms to BS EN 60068-2-27:1993

diesel and the sensor will correct the output level automatically.

ON 54.0 PCD



	0	GASH
1"BSP		DA PO
		EMPTY LEVEL

Up to 1000mm in mobile applications or up to 2000mm in static ap

Model Varia	nt Table
Model No	Output
T/LL360	Resistive
T/LL361	Voltage
T/LL362	Current
T/LL363	Resistive + alarm
T/LL364	Voltage + alarm
T/LL365	Current + alarm

* Vibration Testing		
Frequency	G2/Hz	
10	0.005	
150	0.020	
220	0.010	
350	0.002	

Options

Alarm:

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%). Max load: 100mA.

Custom empty/full points:

Specific empty and full levels can be provided within the allowable measurement range of the probe.

#Connections:

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 3Ω resolution, accuracy of resistive output variants is specified accuracy $\pm 3\Omega$.