

# Liquid Level Solutions

## LLS360 Series Extended Temperature Range Liquid Level Sensor

The LLS-360 Series provides a continuous level measurement of tank contents and offers a choice of voltage, resistance or 4-20 mA outputs. The dual probe design allows the sensor to continuously self calibrate and detect, for example, different fuels, and will recalibrate the output to compensate for differing dielectric constants. Therefore, if a tank is filled with conventional diesel and then bio-diesel, the sensor automatically calibrates to give a corrected output without the need for the user's intervention.

### Specifications

**Liquid Types** Diesel, biodiesel, kerosene, petrol, water and others

#### Mechanical

Housing Die cast aluminum & stainless steel  
 Sensor tube Anodized aluminum  
 Wetted materials PTFE, polypropylene, Viton, aluminum & stainless steel

#### Dimensions

Probe length Min 150mm  
 Max 2000mm (static applications), 1500mm (dynamic)

#### Electrical

Supply voltage 9-32V DC, 80V over voltage protection  
 Supply current 15mA @ 12VDC + output load  
 Connections 430mm long 18AWG flying leads

#### Outputs

Resistive Any value 3-500Ω  
 Resolution 3Ω  
 Dissipation 250mW (maximum)  
 Current: 0-20mA, 4-20mA  
 Resolution 20μA  
 Max load 250Ω  
 Voltage  
 12VDC: Any range between 0-5V/5-0V  
 24VDC: Any range between 0-10V/10-0V  
 Resolution 10mV  
 Max load 10mA source (dependent on min supply voltage)  
 Accuracy 2% of probe length @ 20°C (calculated in diesel)  
 \*For probe lengths ≥300mm  
 Alarm Empty or full levels can be set within measurement range

#### Environmental

Temperature -40°C to +85°C (-40°F to +185°F)  
 Sealing IP67  
 Max tank pressure 0.75 bar (10 psi)  
 EMC In accordance with EN ISO 13766:2006  
 Vibration 500mm sensor type tested to 1.88grms to BS EN 60068-2-64:1993  
 Shock 500ms<sup>2</sup>, 11ms to BS EN 60068-2-27:1993

Model No	Output
LLS360	Resistive
LLS361	Voltage
LLS362	Current
LLS363	Resistive & alarm
LLS364	Voltage & alarm
LLS365	Current & alarm

Pinout	
Red	V+
Black	Ground
Green	Signal Output
White	Alarm (Optional)

