

TECHNICAL DATA

FOZMULA
INNOVATION IN SENSORS

T/LL171 Series Fuel Level Sensor



The **T/LL171 series** is a range of highly advanced sensors designed to continuously measure the height of the fuel level in a tank and provides a 4-20 mA output. The sensor is not a loop powered device.

Fully featured for use in difficult and hostile environments, the sensor has a very small footprint with its advanced electronics being housed in the hexagon header.

Unusually, the **T/LL171 series** can be used in very shallow tanks without detriment to its accuracy.

SPECIFICATION

Liquid Types

Liquids compatible with the construction materials; typically diesel, kerosene, petrol, water.

Dimensions

Probe Length: Min. 90 mm, Max. 500 mm
Threads: 1/2" BSPT, 1/2" BSPP, 1/4" NPTF, 1/2" NPTF, 3/8" NPTF, M14 x 1.5, M18 x 1.5

Electrical

Supply Voltage: 9-30 VDC
Supply Current: 50 mA (including output load)
Supply Protection: Reverse polarity.
Signal Output: Current Source 4-20 mA, 250 Ω max output load.
Output Protection: Supply misconnection. Ground misconnection.
Connections: 4 Way Delphi Packard Metri-Pack 150 Series
Mating Connector: Fozmula **C/K1** (Delphi Packard Metri-Pack 150). To fit 0.8-1.0 mm² conductor, \varnothing 1.6-2.15 mm sleeve.

Performance

Accuracy: \pm 2% of depth @ -20 $^{\circ}$ C to 80 $^{\circ}$ C

Materials

Enclosure: 30% glass filled nylon
Internal Electrode: PTFE
Sensor Tube: Brass
Internal Spacers: Polypropylene
End plug: PTFE
Wetted Seals: Fluorosilicone, Viton (FKM)

Environmental Ratings

Sealing: IP67 with mating connector
Max Pressure: 1 bar
Operating Temp: -20 $^{\circ}$ C to +85 $^{\circ}$ C
Weight: 150 g (500 mm long sensor)

