

TECHNICAL DATA

FOZMULA
INNOVATION IN SENSORS

T/LL171 series fuel level sender



The **Model T/LL171 series** is a range of highly advanced sensors designed to continuously measure the height of the fuel level in a tank.

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 and is capable of operating at significantly extended temperatures without difficulty.

SPECIFICATION

Dimensions:

Probe length: Min 90mm, Max 500mm (Min 3.5", Max 19.7")

Electrical:

Supply voltage: Suitable for 12 and 24 Vdc systems
Accuracy: $\pm 2\%$ of depth @ -20°C to $+80^{\circ}\text{C}$
($\pm 2\%$ of depth @ -4°F to $+176^{\circ}\text{F}$)

Supply current draw: 50mA@15Vdc incl. output load
Connection: Packard Metri-Pack 150 series
Protection: Over voltage (24Vdc) for 1 minute and reverse polarity

Output:

Current source: 4 - 20mA (protected if connected to ground or V+)
Max resistance to gnd: 250 Ω

Construction:

Housing: Brass
Sensor tube: Brass
Internal insulators: PTFE

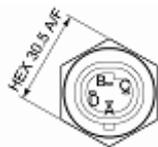
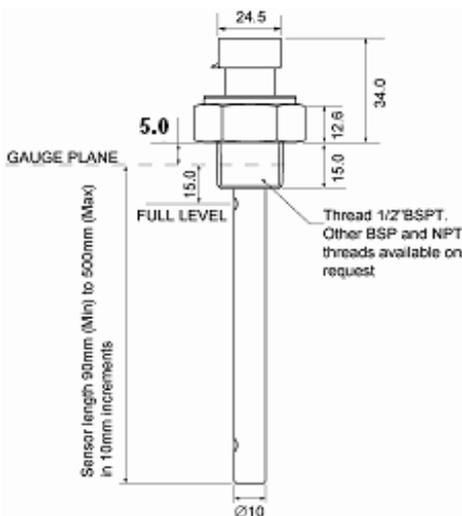
Internal sensor: PTFE coated stainless steel
Wetted seals: Viton
Connector: PA66 GF30

Fluid Types: Diesel, biodiesel, kerosene, petrol, ethanol, water.

Environmental Ratings:

Temperature - operating: -20°C to $+80^{\circ}\text{C}$, -4°F to $+176^{\circ}\text{F}$
- storage: -40°C to $+140^{\circ}\text{C}$, -40°F to $+284^{\circ}\text{F}$
Max tank pressure: 5 bar (72 psi)
Vibration: BS EN 60068-2-64:1993 (15.3grms)

Sealing: IP67
Shock: 50g 6.3ms
Weight: 130g (4.1/2 oz) (200mm long unit)



CONNECTIONS:
A = Ground
B = 4-20mA source
C = 4-20mA return (Ground)
D = V+

Optional accessories:

Mating connector kit to suit harness wire cross sectional area of 0.8 to 1.0mm² and sleeve \varnothing 1.60 to 2.15mm:

Our Part no	Description
C/K1	Connector kit comprising of: Crimp Terminals (x4) Cable seals (x4) Cavity plug (x1) Connector assembly 4 way (x1) TPA lock (x1)

From the Packard Metri-Pack 150 series of connectors.

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