

The **Model T/LL140 series** is a range of highly advanced sensors for continuously measuring the contents of a fuel tank. The products include a feature whereby they can be cut to length\* and be recalibrated.

Additionally, the probe has the facility to fit fuel feed and return pipes (max  $\varnothing 10\text{mm}$ ) within the standard SAE 5 holes flange interface.

A low level alarm switches when the fuel drops below a predetermined level (default is 1/8<sup>th</sup> of the tank), but the alarm point can be optionally specified anywhere between 0-100%.



### Specification

#### Dimensions:

Probe length:

Min 200mm, Max 1100mm (Min 7.9", Max 43.3")

Note: the probe length should be determined to leave min. 25mm of space from the end of the probe to the base of the tank.

#### Electrical:

Supply voltage:

12 or 24Vdc nominal

Supply current: 28mA@12Vdc + output load

Connections:

500mm long flying leads which can be optionally fitted with any specified receptacle

Accuracy:  $\pm 2.0\%$  of depth @ 20°C

#### Outputs:

Resistive:

One from: 10-180 $\Omega$ , 240-33 $\Omega$  or 3-180 $\Omega$  (Emulated resistive output)

Voltage:

Selectable: 0-5V, 5-0V or any voltage range in between these limits (ascending or descending)

Alarm:

Switch to ground at 1/8 tank depth - max load 100mA. Optionally adjustable between empty and full.

Warning Output Load:

100mA max.

#### Construction:

Housing:

30% glass filled Nylon 66

Internal sensor: Aluminium

Sensor tube:

Stainless steel 316

Wetted seals: PTFE & Nitrile

Internal insulators:

PTFE

#### Fluid Types:

Diesel, biodiesel, kerosene, petrol. Not suitable for fuels with a high dielectric constant.

#### Environmental Ratings:

Temperature - operating:

-40°C to +85°C (-4°F to +185°F)

Sealing: IP67

- storage:

-40°C to +105°C (-40°F to +221°F)

Shock: 50g 6.3ms

Max tank pressure:

For use in unpressurized tanks

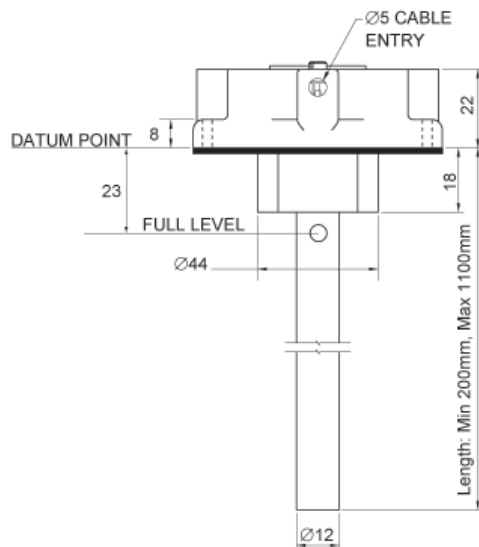
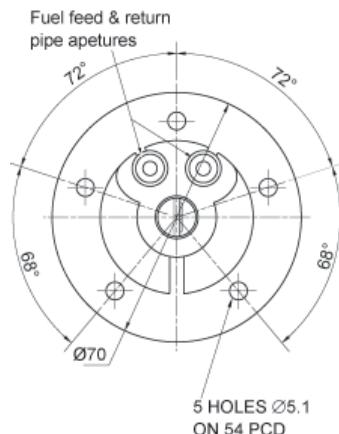
Weight: 300g (1M long unit)

Vibration:

BS EN 60068-2-64:1993 (15.3grms)

EMC:

Type approval in accordance with EN ISO 13766:2006



Model	Output
T/LL140	Resistive
T/LL141	Voltage

Wire colour codes:

Red: V+ (9 ~ 34V)

Green: V- (Ground)

Yellow: LLA max 100mA

Blue: Signal out (V)

Black: Signal out ( $\Omega$ )

White: Calibration

\* Part Number CA0482 probe length adjustment kit must be purchased if the sensor is to be cut to a different length.

Fozmula Limited, Berrington Road, Leamington Spa, Warwickshire, CV31 1NB, UK

Tel: +44 (0)1926 466700 Fax: +44 (0)1926 450473 E-mail: sales@fozmula.com Website: www.fozmula.com