contec:

Wege zur sauberen Lösung

T/LL140 series fuel level sensor

The Model T/LL140 series is a range of highly advanced sensors for measuring the contents of a fuel tank. Their main feature is that they auto-recalibrate when the fuel is at the full level and the sensor's electronics negate the effects of changes in the fuel's dielectric constant caused by the use of different fuels or percentage of additives being used. Additionally, the probe has the facility to fit fuel feed and return pipes (max 10mm) within the standard SAE 5 holes flange interface. Another useful facility is that the user can cut the sensor probe to length to suit the tank depth.

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

Specification

Dimensions:

Probe length: Min 200mm, Max 1000mm (Min 8", Max 40")

Electrical:

Supply voltage: 12 or 24Vdc nominal

System frequency: 8kHz

Accuracy: ±2.0% of immersion depth @ 20°C

Supply current: 8mA@12Vdc + output load
Connections: 500mm long flying leads which can
be optionally fitted with any

specified receptacle

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)

PWM: As specified. (Max vout load 15mA)

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 6 Internal sensor: Epoxy resin coated FR4 fibre glass

Sensor tube: Stainless steel 316 Wetted seals: PTFE

Internal insulators: PTFE

Fluid Types:

Fuels compatible with materials of construction

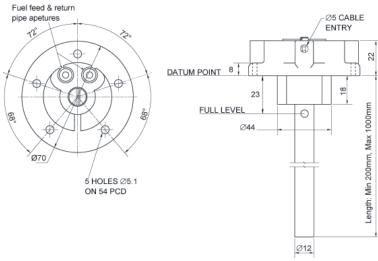
Environmental Ratings:

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 (15.3 grms) EMC: Type approval in accordance with

EN ISO 13766:2006



Model	Output
T/LL140	Resisitive
T/LL141	Voltage
T/LL142	PWM

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