

# TRANSGAUGE-LPS CAPACITANCE LEVEL TRANSMITTER

## Features:

- Adjustable Integral Level Switches
- Suitable for Conductive and Non-conductive liquids.
- Easy to install and set-up
- For use in Vented Tanks

## Applications:

- Continuous Measurement of Liquid Level in Tanks and Vessels.
- Initiation of Level Alarms and Pump On/Off Signals



## Function.

The Transgauge LPS measures the level of liquid in a tank using capacitive techniques. There is no electrical contact with the liquid, other than an electrical earth connection. It produces a current output and a voltage output, which can be used to drive meters or any other monitoring instruments. It also gives high and low trip outputs that can be used to provide alarms or to control pumps or valves.

The operating modes allow the user to calibrate the probe to any required range (for most types of liquid), calibrate the voltage and current outputs for any required meter range, set high/low trip points and hysteresis, and to electronically damp the reading if required (to give a steady reading if the liquid is agitated).

The probe consists of a stainless steel tube with a concentric Teflon-insulated wire. Breather holes at the top and bottom of the tube allow the liquid to flow freely into and out of it. The electronics are housed in a small head box, which also contains the electrical terminals and switches to configure the operating mode.

If the gauge is used in an inaccessible location (e.g. in a marine fuel tank) the electronics can be supplied in a separate control box, which can be fitted behind the dashboard.

## TECHNICAL SPECIFICATION

Power requirements:	Voltage and/or current output only: 7.0...30.0VDC If using trip level outputs: 10.0...30.0VDC 40mA max + current output If using current loop output: 7.0...30.0VDC
Maximum Output Span:	0...10.00V      0...25.00mA
Trip outputs:	2 Volt-free contacts rated 240VAC 1A (Subject to health and safety regulations)
Maximum voltage on any terminal relative to case earth:	240VAC
Resolution:	Conductive liquid (e.g. water) 0.25mm Non-conductive liquid (e.g. oil) 1mm
Accuracy:	±0.25% of maximum output span
Fixing:	Thread: 1" BSP Parallel Flange: 125mm dia. 4x9mm holes on 101.6mm PCD
Dimensions:	Head Box: 67 x 98 x 35 mm, sealed to IP65

## CONNECTION DETAILS

