Techtrol Guided Wave Radar Transmitter - G-TROL



It is contact type guided wave radar suitable for level measurement of liquids, slurries or solid particles.

Operating Principle:

It consists of a probe connected to an enclosure containing signal converting electronics powered by 24 VDC supply. Low power electromagnetic pulses are sent along the probe length down to the product surface. The pulses are partially reflected back to the electronics. The intensity of pulses reflected back depend upon dielectric constant of the product. Transit time of emitted and reflected pulse is proportional to distance, which is then converted by electronics into 4-20 mA signal output.

Salient Features:

- ☑ Level measurement is not affected by steam, foam, temp, pressure, humidity or dust.
- ☑ Easy to install and retrofit with wide range of process connections.
- ☑ Measuring range upto 30 mtrs.

Specifications:

Measuring Mode : Level

Probe type x Range: Mono rod probe (Ø8mm) - 6 mtrs

: Mono cable probe (Ø4mm) - 30mtrs

Dead Band : Top dead band - 400mm

: Bottom dead band -100mm

Dielectric constant : ≥ 1.9

Liquid Viscosity : ≤ 500 cst

Frequency Range : 100MHz ~ 1.8 GHz

Accuracy : +/- 5mm Repeatability : +/- 2mm

Supply : 24VDC (+/- 10 %)

Output : 4-20mA or 4-20mA with HART

Display : 4 digit LCD

Enclosure : Aluminium, WP IP67
Cable entries : 2 nos - M20 x 1.5 mm

Probe MOC : SS316

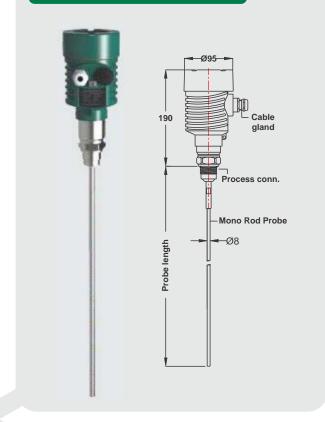
Process Conn. : SS304 Screwed or Flanged

Optg. Pressure : -1 to 20 Bar

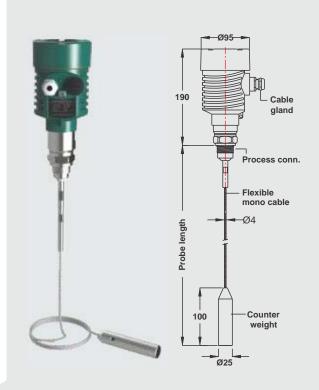
Optg. Temp. : Std - 40 to 120°C

: High Temp upto 250°C

G-TROL (Mono Rod Probe)



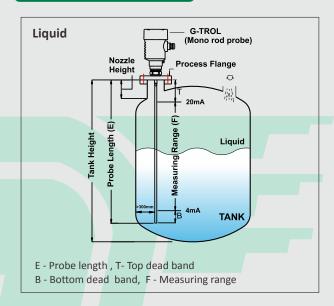
G-TROL (Mono Cable Probe)

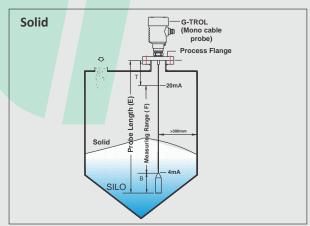


Cost effective replacement for:

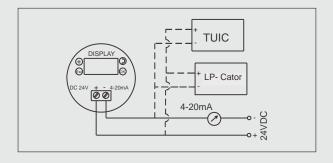
- 1. Float & Tape Gauge with Transmitter
- 2. Displacer Transmitter
- 3. Capacitance Transmitter

Typical Installations:





Terminations & Wiring:





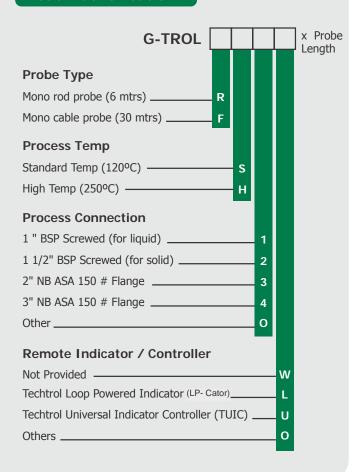
Industries:

Food, Chemical, Water & Waste, Power generation, Steel, Cement, Quarry and Powder.

Applications:

- Level measurement
- 2. Volume measurement in conjunction with TUIC

Model Identification:



Ordering Information:

Model no x Probe length x Product and its dielectric constant, Optg. Temp & Pressure.

All dimensions in mm except specified

Pune Techtrol Pvt Ltd [CIN: U31909PN1991PTC063403]





