

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.

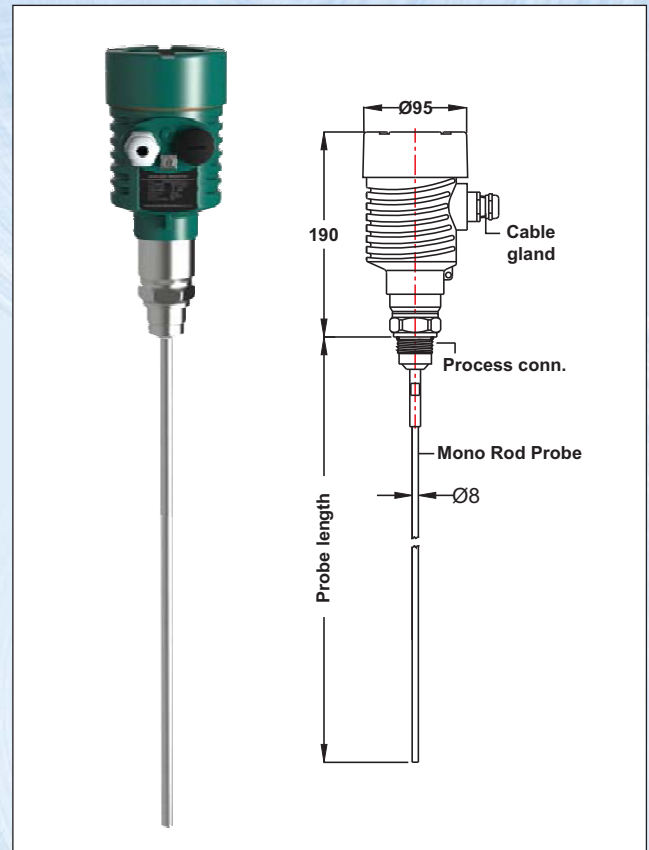
Salient Features :

- ☑ 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.

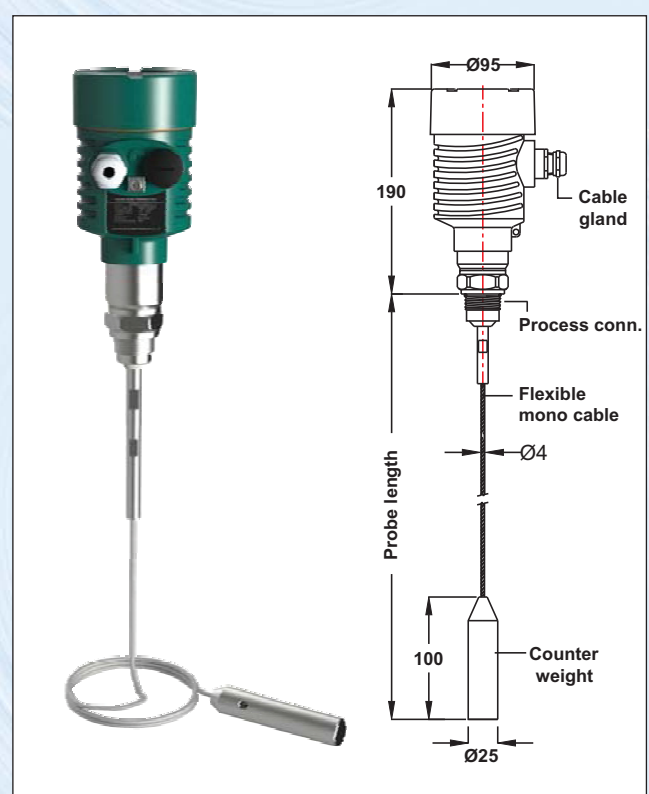
Specifications :

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	: 4-20 mA with HART (2 wire)
Display	: 3 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	: -0.1 - 2 Mpa
Optg. Temp.	: Std - 40 to 120°C : High Temp upto 250°C

G-TROL (Mono Rod Probe)



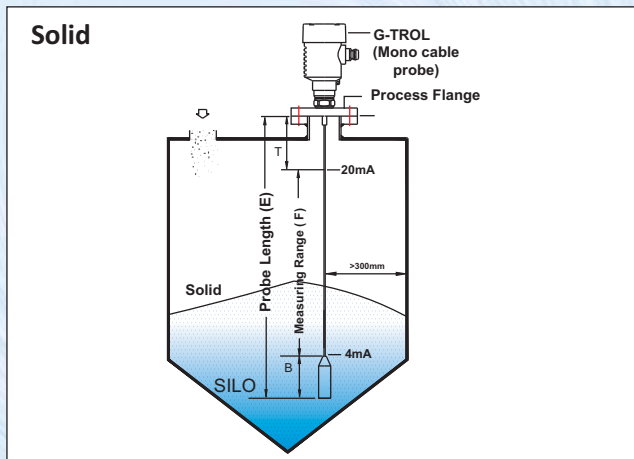
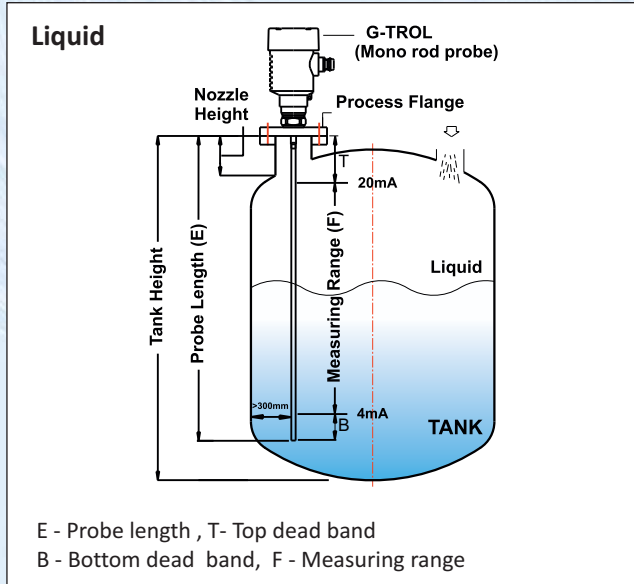
G-TROL (Mono Cable Probe)



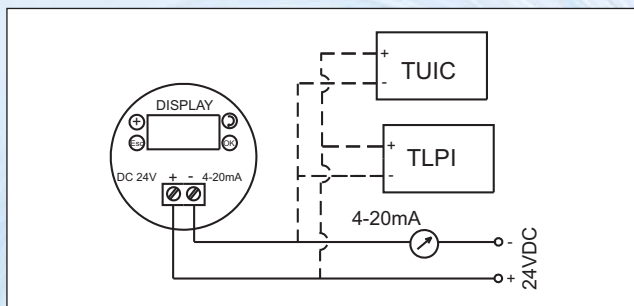
Cost effective replacement for :

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 :

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

Model Identification :

G-TROL					x Probe Length
Probe Type					
Mono rod probe (6 mtrs)	R				
Mono cable probe (30 mtrs)	F				
Process Temp					
Standard Temp (120°C)		S			
High Temp (250°C)		H			
Process Connection					
1" BSP Screwed (for liquid)				1	
1 1/2" BSP Screwed (for solid)				2	
2" NB ASA 150 # Flange				3	
3" NB ASA 150 # Flange				4	
Other				0	
Remote Indicator / Controller					
Not Provided					W
Techtrol Loop Powered Indicator (TLPI)					L
Techtrol Universal Indicator Controller (TUIC)					U
Others					O

Ordering Information :

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

*Dimensions are in mm

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