

Techtrol Guided Wave Radar Level Transmitter – 'G-TROL'



A radar transmitter for continuous level measurement of non-corrosive liquids.

Salient Features

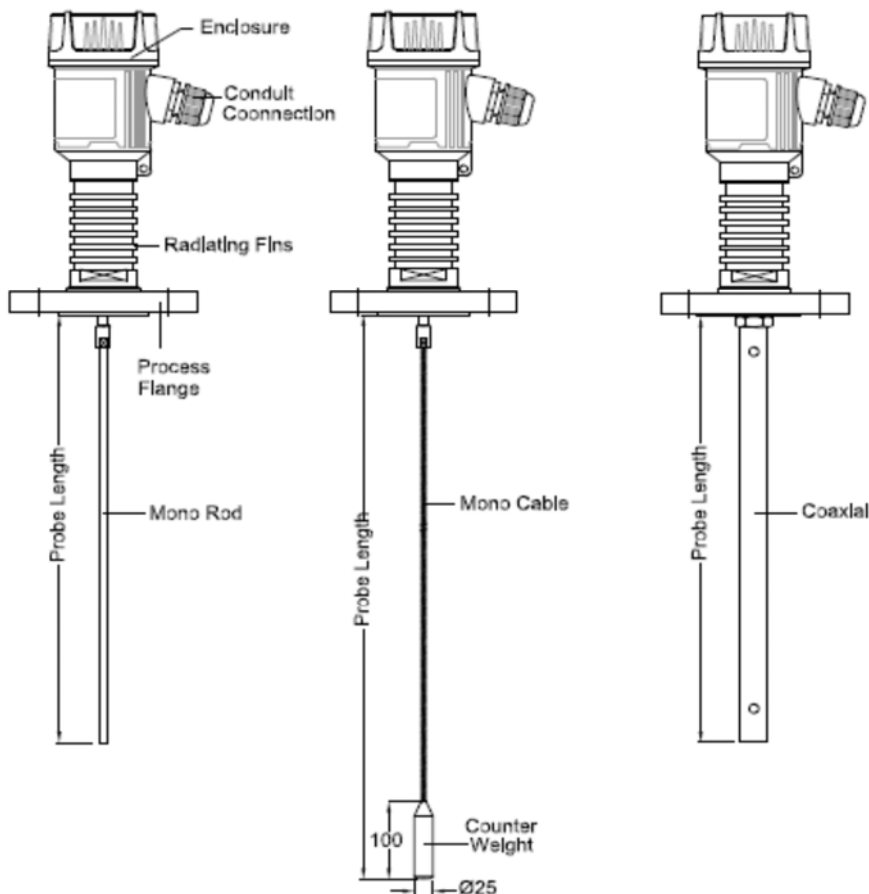
- Easy to install and retrofit on existing tanks
- Easy to program with display and keypad
- Measuring range upto 30 mtrs

Working

It is based on time-domain reflectometry principle. The microwave pulses are sent along the probe (rod or cable) length to the liquid surface, which get reflected to electronic module housed in the enclosure. The time interval between transmitted pulse and received pulse is processed to generate 4-20 mA output. This output can be connected to Techtrol Level Indicator Controller, PLC or DCS for continuous level indication and control.



Schematic Diagram



Specifications

Probe Type x Length	a.	Mono rod x 6 mtrs
	b.	Mono cable x 30 mtrs
	c.	Coaxial x 3 mtrs (low dielectric liquids)
Dead Band		0.4 m
Optg. Frequency		100 MHz to 1.8 GHz
Process Connection		1-1/2" BSP screwed or 2" NB flange connection
Enclosure x Cable Gland		Cast Al. IP67 x M20 x 1.5 cable gland, nylon
Display (Integral)		LCD
Dielectric Constant		≥ 2
Power Supply		24 VDC ±10%
Output		4-20mA + HART (2 wire)
Accuracy/ Repeatability		± 5 mm/± 2 mm
Response Time		< 2 Sec
Power Consumption		0.5W
Max. Load		250 Ohms
Amb. Temperature		70 °C
Max. Temperature		-20 to 80°C (standard temp) -20 to 200 °C (high temp)
Max. Pressure		-1 to 40 bar

Applications: Water, effluent, condensate, oil, slurry, dilute acids & alkalis.

Model Identification

		'G-TROL'-		
1. Probe Type				
	Mono rod	R		
	Mono cable	F		
	Coaxial	C		
2. Process Temperature				
	80°C (standard)		S	
	200 °C (high)		H	
3. Process Connection				
	1-1/2" BSP (M) screwed			1
	2" NB ASME 150 # flange			2
	3" NB ASME 150 # flange			3
	Others			0

Level Indicator & Controller: Refer individual catalogs.

'TLIC'



Panel Mtd.

Level Indicator Controller

'TUIC'



Panel Mtd.

Universal Indicator Controller

'LP-Cator'



Wall Mtd.

Loop Powered Indicator

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