

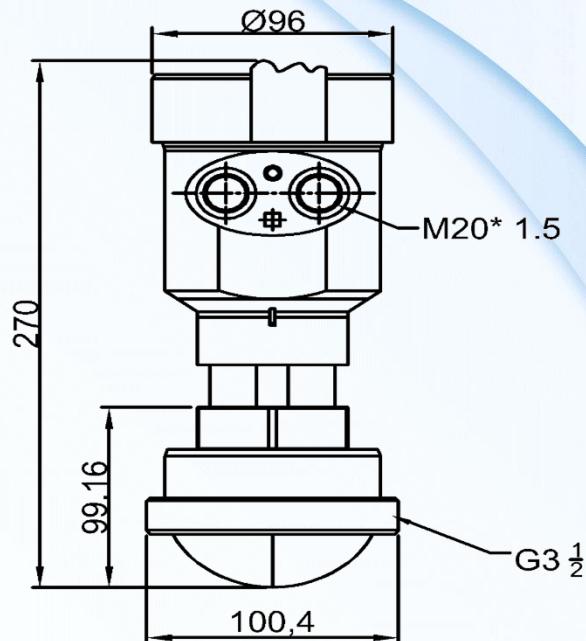
## Radar Level Transmitter

We are introducing our Radar Level Transmitter - Non contact Type with 80 GHz FMCW for continuous level measurement of **liquids and solids**. It can be widely used for level measurement for water, wastewater treatment, chemical, food, oil and other highly corrosive or dusty media.



### Silent Features :

- Easy to install and retrofit on existing tanks.
- Minimum Beam angle
- For High Temperature range Up to 500 °C.
- Measuring range Up to 60 meters.
- Reliable & accurate performance with 80 GHz FMCW high frequency signal



## Working :

The Radar Level Transmitter emits continuous signal of RF frequency (80 GHz) towards the service media and then reflected back from media surface to the sensor. The electronics detect the frequency difference between transmitting and receiving signal and generates 4-20 mA output corresponding to level. This output can be connected to Level Indicator Controller, PLC or DCS for indication and control the media Level.

## Applications :

Water, Waste Water, Effluent, Sewage, Acids, Alkalies, Chemicals, Vegetable Oils and Water based Paints, Dam Water, Reservoir Water, Ash Slurry, flours ash, cement, granules, gravels, grains, plastic pellets, lime, flakes, coal, sand, clink Oleum, Acids, Alkalies, Vegetable Oils, Lime Powder, and Ores.

## Technical Specifications :

Level Transmitter Type	RADAR Level Transmitter
Frequency	76GHz ~ 81GHz , 5GHz FMCW
Accuracy	±2mm
Beam Angle	3° & 8°
Measuring Range	0.1 m to 10 m / 0.25 m to 30 m / 0.6 m to 60 m
Mini. Dialectic Constant	≥2
Power	18~28 VDC (<1W)
Communication	MODBUS HART
Signal output	4 to 20 mA or RS-485
Operation Display	128X64 Dot Matrix /4 Buttons
Enclosure	Al. Alloy Weatherproof /Flameproof
Antenna Type	Lens / Anti-Corrosive / Flange Isolated by quartz
Process Temperature	-20°C to 500 °C
Process Pressure	-1 to 20 Bar
Cable Entry	M20*1.5 or ½" NPT
Recommended Cable	AWG 18 or 0.75 mm <sup>2</sup>
Protection Class	IP66
Explosion Proof Grade	Ex db. for Gas Group : IIC, EPL Gb & Db.
Dust Ignition Protection	IS/IEC 60079-3 1:2022
Process Conn. Type	Threaded / Flange

# Model Identification

RLT -

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1. Measuring Range	
0.1 to 10 MTR	1
0.25 to 30 MTR	3
0.6 to 60 MTR	6

2. Media Type	
Liquid	L
Solid	S
Powder	P

3. Enclosures	
Cast Aluminium Weatherproof	W
Cast Aluminium Flameproof	F

4. Process Connection Size	
1-1/2"	A
2"	B
2-1/2"	C
3"	D
Other	O

5. Process Connection Type	
ASME 150# Flange	1
BSP (M) Screwed	2
Other	O

6. Process Connection Material	
CS	H
SS 304	I
SS 316	J
PP	K
Other	O



## 7. Temperature Range

-20 to 70 °C	1
-20 to 120 °C	2
-20 to 200 °C	3
-20 to 500 °C	4

## 8. Output

Two Wires	T
Modbus	M
HART	H

## 9. Cable Entry

M20*1.5	M
½" NPT	N

## Notes :

1. Please mention media & application with temperature / pressure range for more clarity.
2. For media not mentioned above please contact factory for consultation.
3. For Flameproof model maximum temperature is -20 to 120 Deg. C.
4. For Non-Flameproof models we have temperature range from -20 to 500 Deg. C.

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