

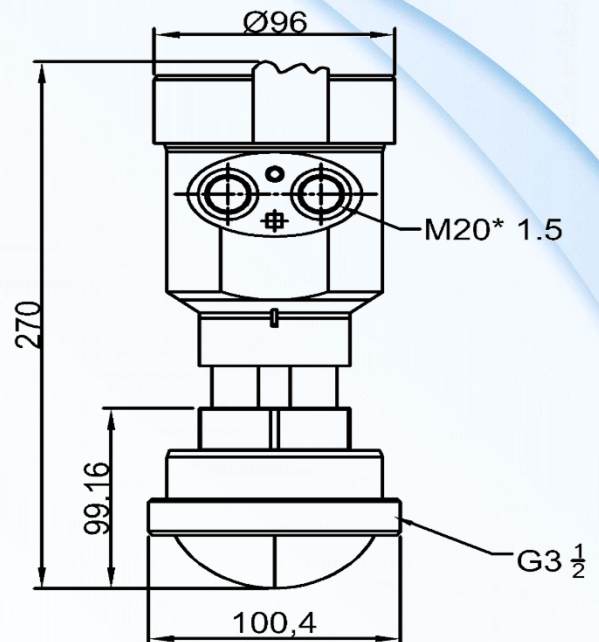
Radar Level Transmitter

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, clinke 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. Dielectric 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 ² |
| 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 -

| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
|--|--|--|--|--|--|

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 |

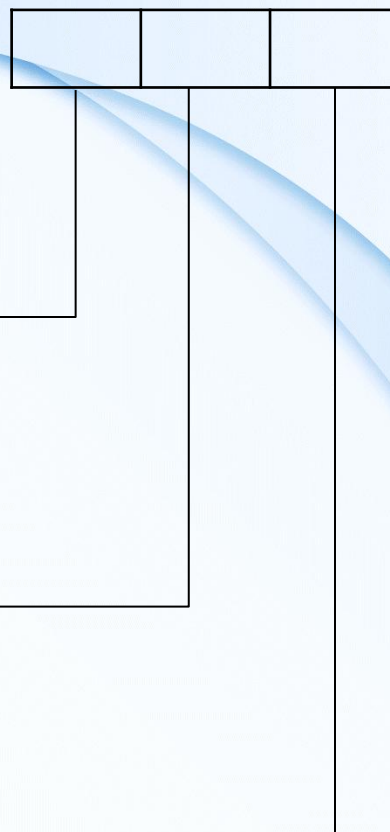
6. Process Connection Material

| | |
|--------|----------|
| 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 -20to 500 Deg. C.

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