



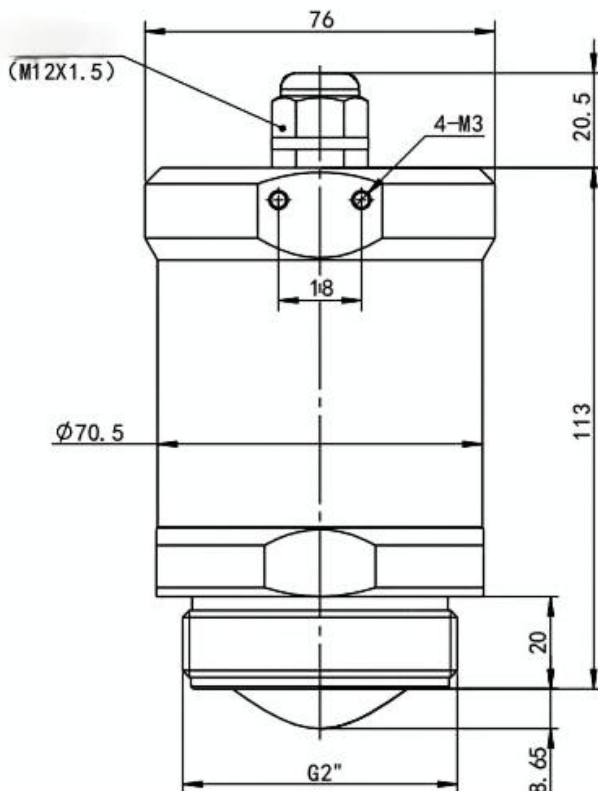
## Product Details

The Trantech TTR80WE 80GHz Radar Level Transmitter is the ideal sensor for non-contact level measurement for liquids and solids. This sensor offers a robust stainless steel housing, IP68 enclosure and uses 80 GHz FMCW high frequency radar technology offering performance and accuracy.

## Features

- High Frequency 80GHz radar
- FMCW (Frequency Modulated Continuous Wave)
- Accuracy :  $\pm 2\text{mm}$  (liquid)
- Range : Up-to 30m
- Radar angle :  $\pm 3^\circ$
- Bluetooth app configuration
- 4-20mA / Modbus / Hart
- Thread connection or Flange

## Dimensions



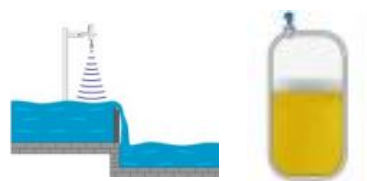
## Applications

### Open applications :

- Open channel level measurement
- Water & wastewater field
- Rain basins
- Dam level

### Closed applications :

- Tanks
- Storage vessels

|                            |                                                                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Model</b>               | TTR80WE                                                                                                                                                         |
| <b>Product Type</b>        | Radar Level Transmitter - FMCW                                                                                                                                  |
| <b>Application</b>         |  <p>* Open channel water measurement</p> <p>* Standard liquid measurement</p> |
| <b>Frequency</b>           | 77GHz-81GHz                                                                                                                                                     |
| <b>Measurement Range</b>   | 10M 20M 30M                                                                                                                                                     |
| <b>Accuracy</b>            | ±2mm for liquid                                                                                                                                                 |
| <b>Beam Angle</b>          | ±3°                                                                                                                                                             |
| <b>Material</b>            | Stainless Steel                                                                                                                                                 |
| <b>Process Connection</b>  | Thread and flange (customized)                                                                                                                                  |
| <b>Process Temperature</b> | -20°C to 60°C (-20 to +140°F)                                                                                                                                   |
| <b>Process Pressure</b>    | Normal atmospheric pressure                                                                                                                                     |
| <b>Signal output</b>       | 4-20mA / RS485/ HART                                                                                                                                            |
| <b>Power</b>               | Two-wire DC 24V (22V~30V)                                                                                                                                       |
| <b>IP Protection</b>       | IP68 with 10 meter fitted cable                                                                                                                                 |
| <b>Size</b>                | 74mm*97mm, weight 1.5Kg                                                                                                                                         |

# Model Selection



**TTR80WE 80GHz Radar Level Transmitter (SS 304 housing, no display)**

| Code   | Medium Type                    |
|--------|--------------------------------|
| WS     | Water / liquid                 |
| SP     | Solid / Powder                 |
| Code   | Measuring Range(m)             |
| 0.2~30 | 10, 20, 30                     |
| Code   | Connection                     |
| G      | G'' Thread                     |
| F      | Flange                         |
| Code   | Temperature                    |
| N      | -20-60°C                       |
| Code   | Cable entry                    |
| M      | M12×1.5 with 10 m cable fitted |
| Code   | Electronics                    |
| T      | Two-wire<br>4...20mA           |
| M      | Modbus                         |
| H      | HART                           |
| B      | Bluetooth                      |

**TTR80WE WS 10 G N M TMHB**