



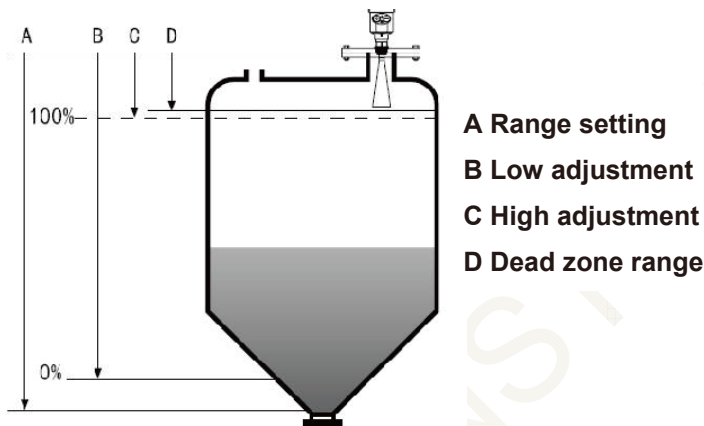
## RADAR LEVEL METER

### 26GHz Radar Level Meter:-

80X series sensors are 26G high-frequency radar-type level measuring instruments, with a maximum measurement distance of 80 meters. The antenna is further optimized and processed, and a new type of fast microprocessor can perform higher-speed signal analysis and processing, so that the instrument can be used for some complex measurement conditions such as reactors and solid silos.

### Principle:

Radar level antennas emit narrower microwave pulses that are transmitted downward through the antenna. After the microwave touches the surface of the measured medium, it is reflected back and received again by the antenna system. The signal is transmitted to the electronic circuit and is automatically converted into a level signal. The time taken is almost instantaneous).



The reference surface for measurement is: the bottom surface of the thread or the sealing surface of the flange.  
Note: When using radar level timing, it must be ensured that the highest material level cannot enter the measurement blind zone (the area shown by D in the figure).

### 26G radar level gauge features:

- The antenna size is small for easy installation; non-contact radar, no wear and no pollution.
- Hardly affected by corrosion and foam; hardly affected by water vapor, temperature and pressure changes in the atmosphere.
- The severe dust environment has little effect on the operation of the high-frequency level gauge.
- Shorter wavelengths give better reflection on inclined solid surfaces.
- The beam angle is small and the energy is concentrated, which enhances the echo capability and helps avoid interference.
- The measurement blind area is smaller, and it can also achieve good results for small tank measurement.
  - High signal-to-noise ratio for better performance even in fluctuations.
  - High frequency is the best choice for measuring solid and low dielectric constant media.



**Application:** Temperature-resistant, pressure-resistant, slightly corrosive liquid

**Measuring range:** 30 meters

**Process connection:** thread, flange

**Medium temperature:** -40 ~ 250 °C

**Process pressure:** -0.1 ~ 4.0MPa

**Accuracy:** ± 3mm

**Protection class:** IP67

**Frequency range:** 26GHz

**Explosion-proof grade:** Exia IIC T6 Ga / Exd ia IIC T6 Gb

**Signal output:** 4 ... 20mA / HART (Two-wire / Four-wire)

**RS485 / Mod bus**

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