

Intelligent Radar level meter instrument

◆◆◆ WSL90X SERIES Radar level meter instrument



This **WSL90X** series of radar level meter adopted 26G high frequency radar sensor, the maximum measurement range can reach up to 80 meters. Antenna is optimized further processing, the new fast microprocessors have higher speed and efficiency can be done signal analysis, the instrumentation can be used for reactor, solid silo and very complex measurement environment.

Principle

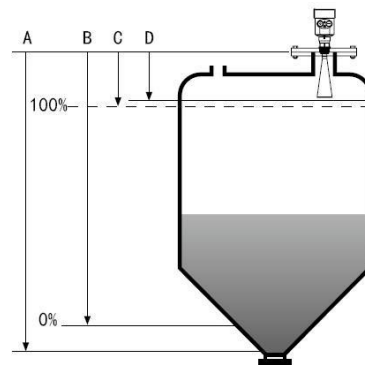
Radar level transmitter antenna microwave pulse is narrow the downward transmission antenna. Microwave exposure to the medium surface is reflected back again by the antenna system receives, sends the signal to the electronic circuit automatically converted into level signals (because the microwave propagation speed, electromagnetic wave to reach the target and the reflected back to the receiver this time is almost instantaneous).

A: Range set

B: Low adjustment

C : High

D : Blind area



Datum measurement: Screw thread bottom or the sealing surface of the flange.

Note: Make sure the radar level meter the highest level cannot enter the measuring blind area (Figure D shown below).

Features

- ★ Small antenna size, easy to install; Non-contact radar, no wear, no pollution.
- ★ Almost no corrosion, bubble effect; almost not affected by water vapor in the atmosphere, the temperature and pressure changes.
- ★ Serious dust environment on the high level meter work has little effect.
- ★ A shorter wavelength, the reflection of solid surface inclination is better.
- ★ Beam angle is small, the energy is concentrated, can enhance the ability of echo and to avoid interference.
- ★ The measuring range is smaller, for a measurement will yield good results.
- ★ High signal-to-noise ratio, the level fluctuation state can obtain better

Technical parameters

Items	Specifications
Application :	* All kinds of corrosive liquid; * Liquid * Solid material, Strong dust easy to crystallize, condensation occasion; * Solid particles, Powder * Hygienic liquid storage, Corrosive container
Measuring Range :	10 meters / 30 meters / 70 meters / 80 meters / 20meters / 30meters
Process Connection :	Thread, Flange / Universal Flange / Normal pressure
Medium Temperature :	-40°C ~ 130°C / -40°C ~ 250°C
Process Pressure :	-0.1~4.0MPa (Flat flange),-0.1~0.3MPa (Universal flange)
Accuracy :	± 5mm / ± 3mm / ± 15mm / ± 10mm
Protection Grade :	IP67
Frequency Range :	26GHz
Signal Output :	4... 20mA/HART (Two-wire / Four)RS485/ Modbus
Explosion-proof Grade :	Exia IIC T6 Ga Exd [ia] IIC T6 Gb