

Ultrasonic Sensor Level Sensor



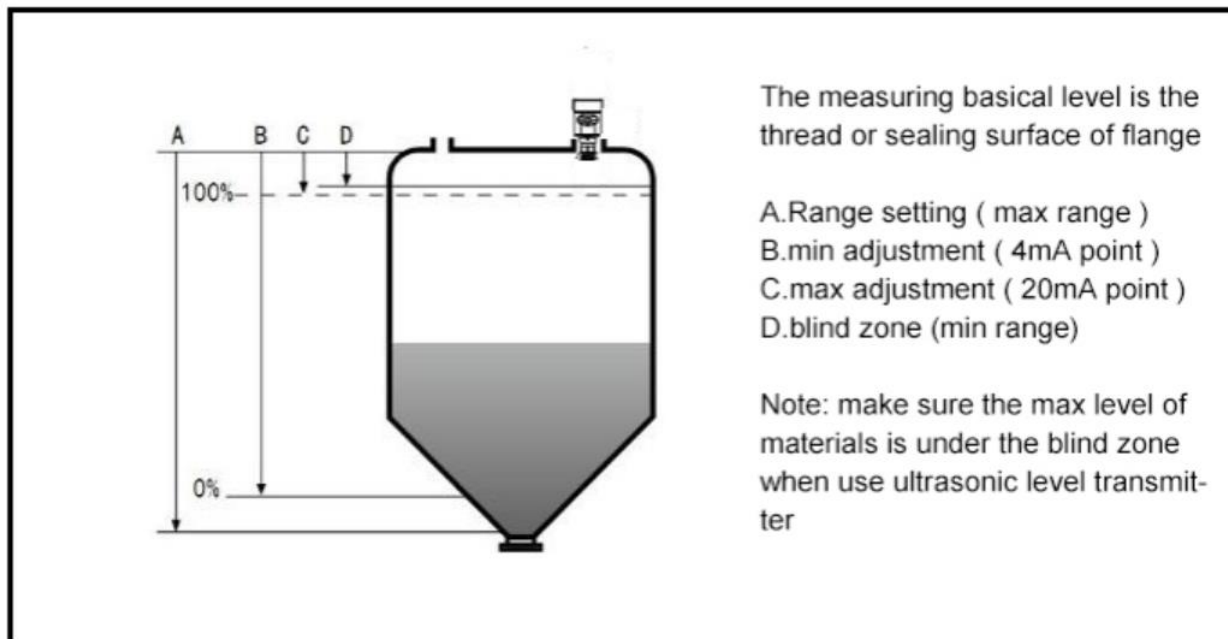
Introduction:

The ultrasonic object/liquid level transmitter is installed on the top of the container. Under the functional control of the combined unit and the electronic components, the probe transmits a beam of ultrasonic pulse of more than 20000Hz to the measured object.

The sonic waves are reflected back by the surface of the object, and part of them will be received by the probe and converted into electrical signals. The time from ultrasonic transmitted till it be received back, it is proportional to the distance from the probe to the measured object. The electronic unit detects the time and calculates the measured distance according to the known sound velocity, so that the object level value can be figured out. As temperature affects the speed of sound, the meter should measure the temperature to correct the speed of sound.

Principle:

It is composed by transducer, electronic unit, display module, shell and so on.



Advantages:

1. None-contact continuous measurement, reduce maintenance
2. Automatic power adjustment, gain control, temperature compensation
3. Advanced detecting technology, rich software functions to adapt to a variety of complex environment.
4. Various output forms: programmable relay output, high-precision 4-20mA current output, rs-485 digital communication output.
5. Good directivity, strong penetrability, easy to obtain more concentrated sound energy to get further transmission distance.

Parameters:

Application	liquid , solid
Measuring range	0-40 m
Process connection	thread
Process pressure	atmosphere
Accuracy	0.5%-1.0%
Protection grade	display meter IP66/ probe IP68
Signal output	4-20mA two-wire or four-wire / RS485 Modbus