ZNC-YW900 Radar Level Meter

I. Product Introduction：

Radar waves are a special form of electromagnetic waves, radar level meter utilizes the special properties of electromagnetic waves for material level detection. The physical properties of electromagnetic waves are similar to those of visible light, and the propagation speed is equivalent to the speed of light. Its frequency is 300MHz-3000GHz. electromagnetic wave can penetrate the space steam, dust and other sources of interference, meet the obstacles are easy to be reflected, the better the electrical conductivity of the measured medium or the greater the dielectric constant, the better the reflection of the return signal. The operating time can be converted into a level signal by means of electronic components. A special time-stretching method ensures stable and precise measurements over very short periods of time.

The radar level antenna transmits narrow microwave pulses, which are transmitted downwards via the antenna. After contact with the surface of the measured medium, the microwaves are reflected back to the antenna system, where the signal is transmitted to the electronics and automatically converted into a level signal (because of the extremely fast propagation speed of the microwaves, the time it takes for the electromagnetic wave to reach the target and to be reflected back to the receiver is almost instantaneous).

II. Product features：

1. Non-contact radar, no wear and tear, no pollution;
2. Small antenna size, easy to install;
3. Measurement blind area is small, for small tank measurement will also achieve good results;

4. Severe dusty environment will not affect the electromagnetic wave work;

5. In the case of fluctuation can also get better performance;

6. The best choice for measuring solids and low dielectric constant media.

III. Applicable medium:

Suitable for non-contact continuous measurement of the level of liquids, slurries and granular materials, suitable for temperature and pressure changes; the presence of inert gases and volatile occasions.

IV. Technical Parameters

Probe Length	0-70m
Medium temperature range	-40~250 ℃
Environmental temperature	-40~70 ℃
Repeatable	±2mm
Resolution	1mm
Responsiveness	>0.2S (depending on specific use)
Accuracy	±3mm
Pressure range	≤2Mpa (high pressure optional)
Antenna materials	stainless steels
Shell protection grade	IP66
Connection method	G 1" thread (1" minimum possible), flange (user selected)
Supply Voltage	DC24V; AC220V
Output signal	4-20mA、hart、RS485
Explosion-proof grade	Exia II C T4

V. Instrument Selection

Type							Explanation
ZNC—YW900	-□	/□	/□	/□	/□	/□	
Instrument Type	A						Flange Connection Horn Type
	B						Flange connection
	C						Screw connection
	D						Multi-directional Type
Output method		1					4 ~ 20mA
		2					4-20mA+ Hart
		3					RS485
Measuring range			A				0-30m（ZNC-YW900A）
			B				0-15m（ZNC-YW900B）
			C				0-15m（ZNC-YW900C）
Display Type				E			Four-digit LED display
				C			Four-digit LED display
Explosion-proof type					N		Non-explosion-proof type
					B		Explosion-proof Ex d ‖ CT6
Encoders						1	NO
						2	YES