

ZNC-YW800 RF Admittance Level Meter



I. Product Introduction:

Radio frequency conductivity level control technology is a capacitive level control technology from the development of level control technology, anti-hanging material, more reliable, more accurate, more widely applicable level control technology, "radio frequency conductivity" in the "conductivity" meaning for the inverse of impedance in the electrical, which consists of resistive components, capacitive components, inductive components integrated into the "radio frequency" that is high-frequency radio waves, so radio frequency conductivity technology can be understood as a high-frequency radio waves to measure the conductivity. Components, capacitive components synthesized, and "radio frequency" that is, high-frequency radio waves to measure the conductivity technology can be understood as high-frequency conductivity. The difference between radio-frequency conductivity technology and traditional capacitive technology is the diversity of measurement parameters, not only to solve the problem of connecting cable shielding and temperature drift, but also solved the vertical installation of the sensor root hanging material problems. The diversity of measurement parameters also strongly expand the instrument's reliable application areas.

The so-called RF conductivity, conductivity means the inverse of impedance in electricity, which is synthesized by resistive components, capacitive components, inductive components, and RF that is the high-frequency radio wave spectrum, so RF conductivity can be understood as the measurement of conductivity with high-frequency radio waves. When the instrument works, the sensor of the instrument and the irrigation wall and the measured medium form the conductivity value, when the level changes, the conductivity value changes accordingly, and the circuit unit converts the measured conductivity value into the level signal output to realize the level measurement.

II. Product features:

1. Unique circuit design allows the measuring circuit to ignore and automatically correct for objects piled up on the probe;



- 2. No cable connection, easy to install and remove, without affecting the work on site;
- 3. Adoption of RF technology and digital technology enhances the reliability of the system;
- 4. Long service life and no mechanical wear and tear.

III. Applicable medium:

Widely used in a variety of occasions, fly ash, particles, powder, liquid, viscous, conductive, non-conductive objects.

IV. Technical Parameters

Operating power	12~40VDC		
Operating Temperature	-40~70°C		
Probe working (medium) temperature	-180°C~850°C(up to 850°C)		
output signal	4-20mA		
response time	Standard 0.2 seconds 0.5 to 30 seconds (adjustable)		
Probe Length	0.1m~20m		
Probe Material	SUS304/SUS316, Ceramic, PPS, PTFE		
Brown-out protection	High and low modes, field adjustable		
protection class	IP66 for outdoor installation		
connection method	NPT thread mount, flange mount (optional)		



V. Instrument Selection

Туре			
ZNC- YW800 - /- /	o /o	//1	Explanation
В			standard type
Switch L			Cable Type
form P			Flat type
s			split model
Ν			conventional: -40~60°C
Testing T			Medium Temperature:-40~200°C
environment H			High temperature type:-40~800°C
К			Anti-corrosion type
Operating power $\frac{D}{A}$)		24VDC
	A		220VAC
connection method G			Threaded connection (generally G1, G1-1/2, special requirements need to be specified by customers)
	F		Flange connection (customer specified size)
Probe Length		-XXXXX	User-selected, in mm. pole probe up to 2.5 m, cable probe up to 20 m
Explosion-proof grad	le	E	No explosion protection if you don't choose