

ZNC Magnetostrictive Level Transmitter Technical Specifications





Product Introduction:

The magnetostrictive level sensor is a new-generation, high-precision liquid level measurement sensor based on the magnetostrictive principle. It features high accuracy, excellent reliability, long service life, stable performance, compact structure, strong environmental adaptability, and easy installation. Compared with level sensors using other principles, it offers clear advantages. It is widely used for liquid level monitoring, measurement, and control in various tanks, pools, and vessels across industries such as petroleum, chemical, pharmaceutical, and food.

Product features:

1. Advanced principle, many functions, wide range of applications;
2. High precision, high stability, high reliability, high resolution;
3. Compact structure, strong environmental adaptability, anti-fouling, dustproof, waterproof (IP66);
4. No need for regular re-labelling and maintenance;
5. Wide range of power supply voltage adaptation, strong anti-interference ability;
6. Protection against lightning strikes and radio frequency interference.

Applicable medium:

Magnetostrictive level meter for petroleum, chemical raw material storage, industrial processes, biochemical, pharmaceutical, food and beverage, tank management and petrol station underground inventory and other kinds of liquid tanks level industrial measurement and control, dam level, reservoir level monitoring and sewage treatment and so on.

Technical Parameters

Measurement range	Rigid Rod: 150–6000 mm; Flexible Cable: 150–30000 mm
Output form	4-20mA, 485 protocol, hart protocol
Repetitive	≤0.05%FS
Response time	< 1 second
Medium temperature	-40°C to 110°C (standard); high temperature optional (-40 to 250°C)
Environmental temperature	-40°C~70°C
Mounting Threads	3/4NPT (standard) flanges or user-specific customization



Load capacity	$\leq 500\Omega$
Accuracy Class	$\leq 0.2\%$

Instrument Selection

Type										Explanation
ZNC-YW1000-	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Output Form	A									①4-20mA ②Dual 4-20 mA
	B									①0-10V ②0-5V
	C									RS485 protocol (no display)
	D									4-20mA Hart protocol
Probe Status	1									Rigid Probe
	2									Flexible Probe
Temperature output (RS485)	1									Yes
	2									No
Measurement type	A									standard type
	B									High Temperature
	C									Anti-corrosion type
	D									Special Customization
Number of Floats	1									Single float
	2									Double float
On-site display	1									Yes
	2									No
Installation form	1									3/4NPT
	2									flange connection
	N									Customization
Flameproof	E									Yes
	Z									No
Lengths										L mm