

Magnetostrictive flexible probe



KYDM magnetostrictive flexible probe use the magnetostrictive measurement technology to report inventory levels in storage tanks. The flexible probe satisfies the demand for a digital communication interface that offers the liquid level market unsurpassed flexibility to meet most process application conditions. The magnetostrictive liquid level probe provide 3-in-1 measurement for liquid level, interface level and temperature measurements. And there is no scheduled maintenance or recalibration needed once the sensor is installed and calibrated.



The output of magnetostrictive flexible probe is Modbus, which is communicated via a 4 wire multi-drop power and data bus (EIA485). Utilizing the Bus network eliminates the requirements for individual cable runs from each tank and this data format provides a direct interface to most types of computers and digital communication equipment.



Features

- ✓ Magnetostrictive technology
- ✓ Non-contact sensing technology
- ✓ 1mm linear accuracy, absolute accuracy
- ✓ Length customized produced from 5m to 20m.
- ✓ High anti-interference capability.
- ✓ 3-in-1 measurement of product level, water level and temperature.
- ✓ Intrinsically safety Ex ia IIB T5

Installation cases



Technical parameters

Power	+24VDC ± 10%; <40mA
Range	5 to 20m (customized)
Output signal	Modbus RTU
Resolution	<4μm
Non-Linearity	<±0.05%F.S. or ±80μm
Repeatability	<±0.002%F.S. or ±2.5μm min.
Temperature Accuracy	±0.5° C
Working temperature	-40° C ~+85° C
Shock rating	100g, Single hit
Vibration rating	15g/100~2000Hz EMC
Probe head	Aluminum or 304SS material
Probe rod	304SS or 316SS or PTFE material
Connection type	Integral cable or Connector (PLT-167P+R)
Mounting	Threaded flange
Protection	IP67
Ex-proof	ExialIBT5