



KYDM-F Series Magnetostrictive Transducers for Oil & Chemical

Product Type:

KYDM-F series anticorrosion magnetostrictive linear level transducer,
KYDM-F series flexible magnetostrictive linear level transducer,
KYDM-F series magnetostrictive linear level transducer, (hard tube)
(oil and chemical)

Description

KYDM magnetostrictive linear level transducer is a contactless liquids level sensor designed for accurate absolute level measurement of liquids. It can monitor the actual fluid level and temperature at the same time. Using excellent communication for monitoring and programming by EIA-RS485, data could be remote. The design and durability of the sensor make it ideal for measuring fluid levels of petroleum. The transducer provides analog output of voltage and current and digital output of Modbus. By utilizing the integral digital temperature sensor in probe, the fluid temperature could be measured as well as the level.

Applications:

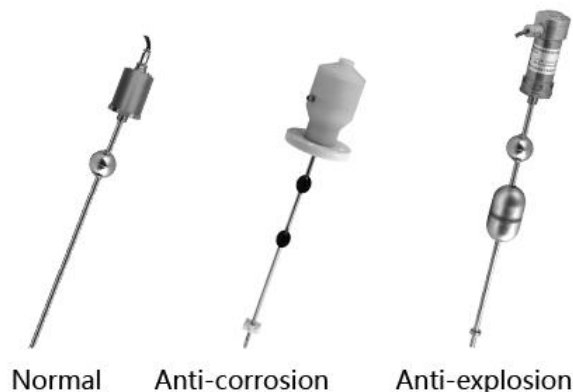
Oil and chemical Scorch

Features:

- ◆High accuracy to meet the high requirements metering of tank level measurement occasions;
- ◆Stable performance, without affect of temperature and pressure changes of gas and liquid inside the tank;
- ◆Various output options to meet a variety of collection system requirements;
- ◆Intrinsic Safety Certification:ExialIBT5 to adapt to a variety of safe applications;
- ◆Modbus, which can measure various parameters of liquid level, interface, temperature;
- ◆Various anti-corrosive structure, to meet a wide range of oil, chlorine and other corrosive measurement environment;
- ◆Easy installation, no maintenance.

Specifications:

Measured position	Modbus—1~3 position or 1~5 temperature points Analog—1~2 position
Operating voltage	+24VDC±10% ; ±15VDC±10%
Outputs	0~5VDC 0~10VDC -5~+5VDC -10~+10VDC 4~20mADC ModBus Hart
Range	Rigid structure: 50~5000mm Flexible structure: 4000~20000mm
Load characteristics	Current output:Load Resistance 600Ω(Max.)
	Voltage output:Load current 2mA(Max.)





Operating Current	<70mA
Operating temperature	-40~+85 °C
Storage temperature	-40~+100 °C
Non-linearity	< ±0.01% F.S.or 1mm max.
Repeatability	< ±0.002% F.S.
Resolution	16bitD/A ,0.1mm
Hysteresis	< ±0.002% F.S.
Temperature coefficient	< ±0.007%F.S./°C
Zero range	100%F.S.
full-scale range	100%F.S.
Update time	depends on range,but less than 20ms
Probe material	A.0Cr18Ni9 (304) B.316SS
Housing material	A.0Cr18Ni9(304)
Mounting	A.threaded connection B.threaded flange
Cable	integral cable, mating connector, integral connector
Sealing	Housing:IP65,Probe IP68
Explosion Proof	Exd II BT5,Exia II CT6

Note: The F.S. is short for Full Scale.

Application Overview:

KYDM Magnetostrictive liquid level transducer (Oil Chemical dedicated) provides high accurate measurement of liquids level sensor designed for huge tank or vessels. It can be tailored to special length and mounting requirements for petrochemical applications. It transmits and monitors level, interface, and temperature at the same time. In addition, volume, density and weight can be work out.

KYDM-FG 1 A4210-

G B 1250M 1 J 1 3-W 100

P Common

G Flame-proof

B Intrinsic safety

1 24 VDC (±10%)

2 15 VDC (±10%)

3 ±15 VDC (±10%)

4 Special (12VDC-24VDC)

V [1][2]output [3]Magnet [4]Direction
01=0~10v 05=0~5v; 1=Single; 0=Positive⁽¹⁾
55=-5~+5v 11=-10~+10v; 2=Double 1=Opposite⁽²⁾

A [1][2]output [3]Magnet [4]Direction
42=4~20Ma 1=Single; 0=Positive⁽¹⁾
2=Double 1=Opposite⁽²⁾

M [1]Mode [2]Baud rate [3] Temp point [4] Temp position
R=RTU 9=9600bps 0=Null W=Null
A=ASCII 4=4800bps 1-5 point S=Standard
1=19200bps P=Average
X=Special

G Hard tube

F Anticorrosive

R Flexible

A A type of electronic housing

B B type of electronic housing

X Special

Your range (mm)

1 Metric screw thread M18*1.5

2 Metric screw thread M20*1.5

3 Inch screw thread 3/4-16UNF

X Special

0 Null

C Cable

J Connection Terminator

H Connection

N High temperature cable

0 Cable on top

1 Cable on side

0~9 (Cable length)

A Mounting Kit FK-1

B Mounting Kit FK-2

C Mounting Kit FK-3

W Null

[1] Level Float

[2] Interface Float

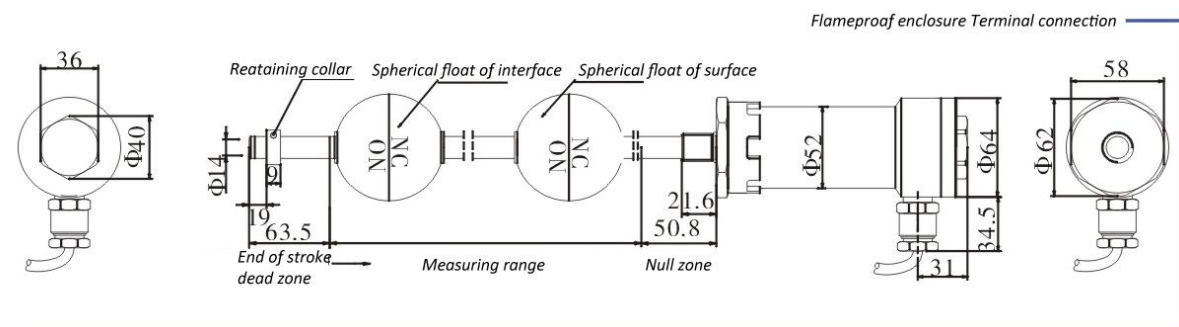
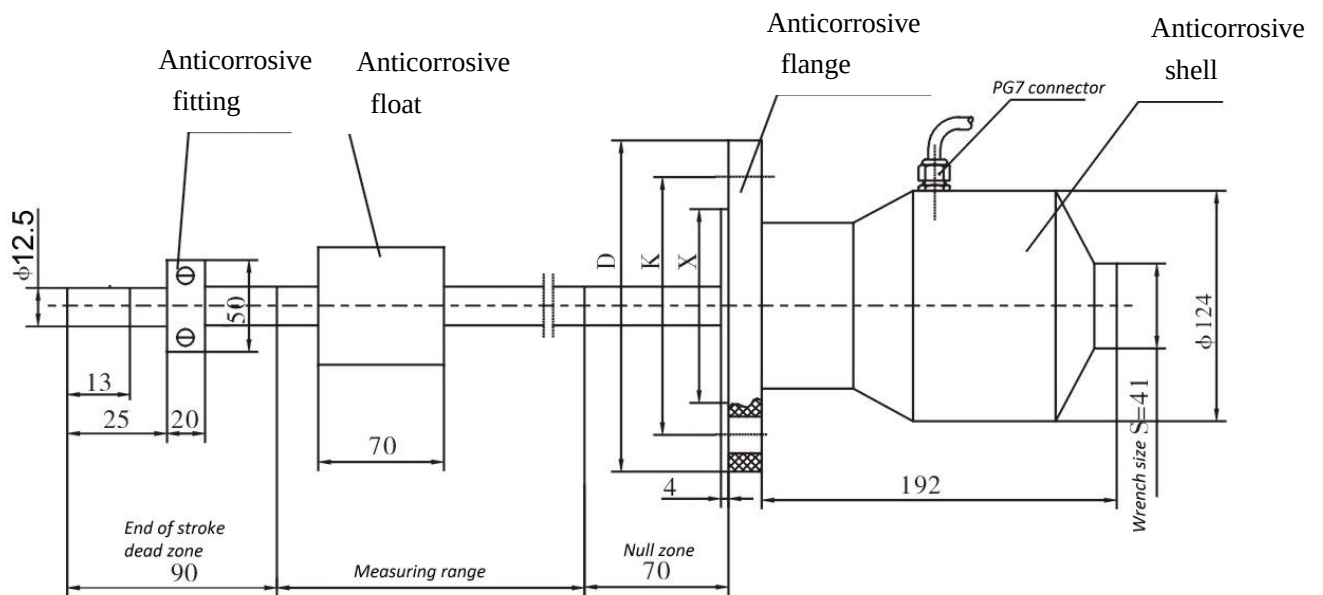
[3] Interface Float

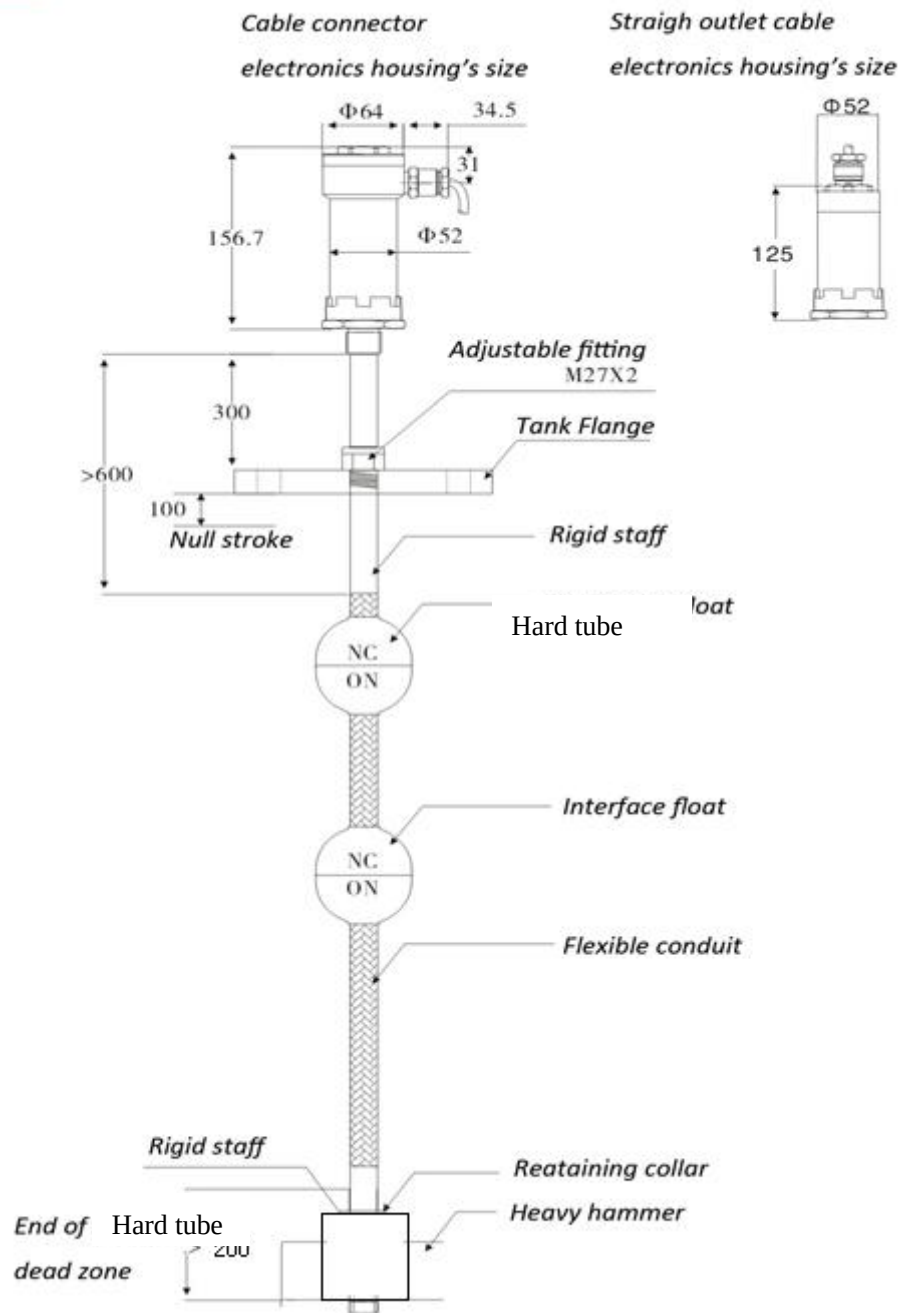
(1) 0 point near the end

(2) 0 point near the top



Product Dimension:







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