

HYM880 Magnetic Liquid Level Transmitter



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Overview

HYM880 magnetic liquid level transmitter is composed of stainless-steel probe rod and signal conditioning circuit. Inside the probe rod is a series of precision magnetoresistive chips. The probe rod of the transmitter is fixed on the outside of the main conduit of the magnetic flap level gauge or magnetic float level gauge in the form of a bundle, so that it is in the same magnetic coupling system. When the magnetic float in the main tube moves up and down with the liquid level, the magnetoresistive chip in the probe rod corresponding to the liquid level is moved by the magnetic field in the float, and the changing magnetoresistive signal is converted into a 4-20mADC standard signal through the signal conditioning module. or other signal output. This signal can be easily used with a microcomputer industrial intelligent controller or connected to other secondary instruments to achieve the purposes of display, control, adjustment, and alarm.

This magnetic flap remote transmission liquid level transmitter is widely used in industrial process control, petroleum, chemical industry, metallurgy, and other industries, especially for liquid level measurement and signal output in high temperature, high pressure, corrosive media and other environments.

Features

- ◆ Standard 4~20mADC current signal output.
- ◆ Used with magnetic flap level gauge or magnetic float level gauge.
- ◆ Different from other liquid level transmitters, it is suitable for high temperature and high-pressure occasions.
- ◆ Zero point and full scale are adjustable.
- ◆ Completely isolated from the medium, strong anti-interference, good long-term stability.
- ◆ Various appearance and structure, special requirements can be customized.

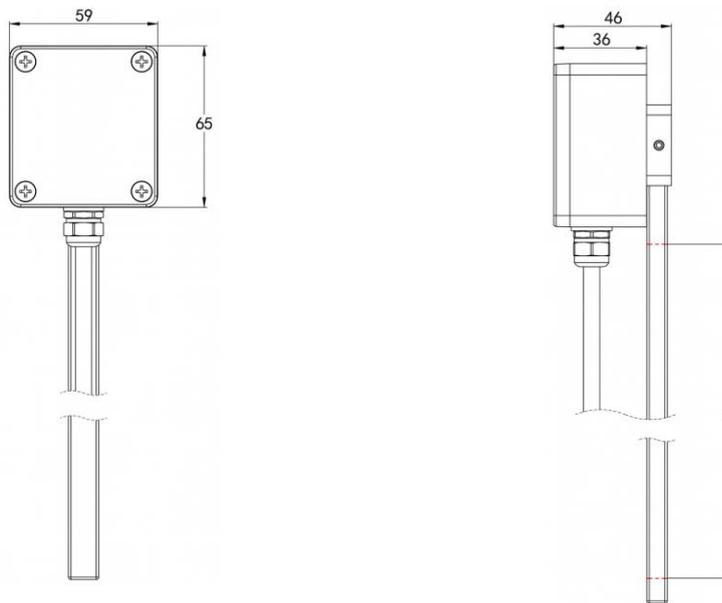
Technical Parameters

Measuring range	0~200mm...5000mm
Measuring medium	Various Liquids
Output s signal/Power supply	4~20mA,2-Wire / Vs= 10~36V 4-20mA+HART,2-wire / Vs= 12~36V RS485,4-wire / Vs=12~36V
Accuracy	10mm (Default) 5mm (Customized) 20mm (Customized)
Output resolution	1uA
Sampling rate	5 times/s

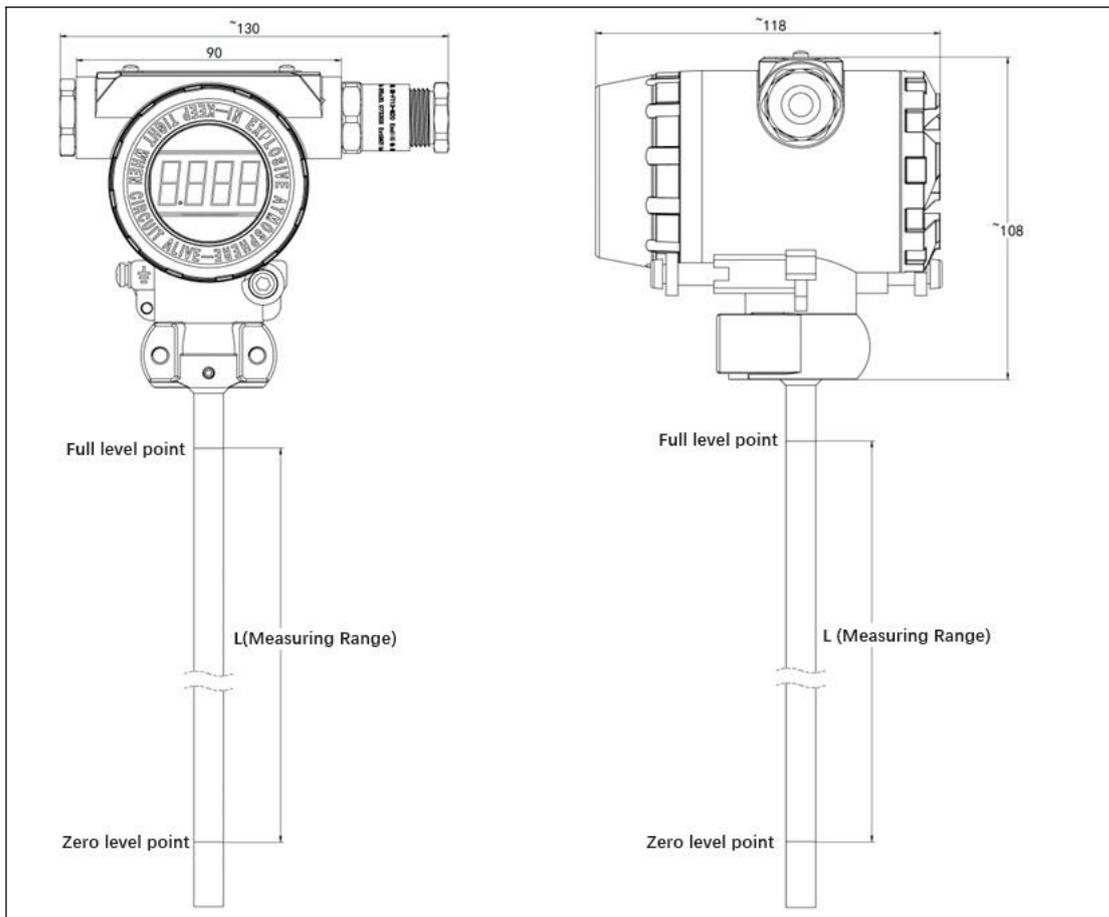
Temperature drift	<40ppm/°C
Temperature range	Ambient temperature: -20~80°C Storage Temperature: -20~80°C
Protection grade	IP65
Vibration	10g(20~2000Hz)
Impact resistance	100g(11ms)
Insulation resistance	>20MΩ @500VDC
Dielectric strength	<2mA @ 500VAC (Apply 500VAC 50Hz test voltage, and there will be no breakdown or arcing for 1 minute.)

Structure Drawings(Unit:mm)

Square waterproof box (ordering code Y1)



2088 explosion-proof box (ordering code Y2088)

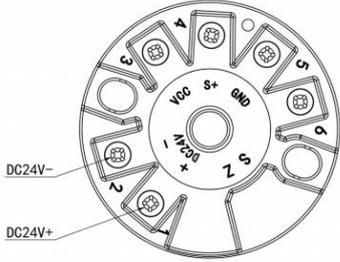
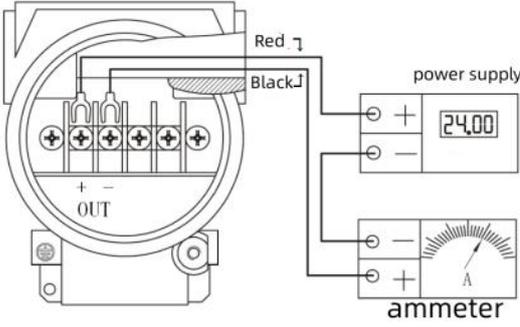
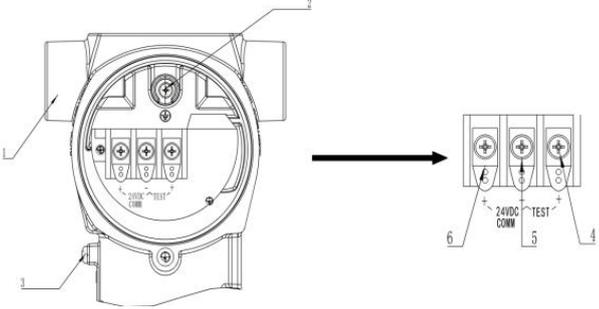


Housing Material

Ordering Code	Part	Material
S4	Measuring tube	SS304
S2		SS201
S6		SS316L
Y1	Junction Box	Square waterproof box, aluminum alloy
Y2088		2088 explosion-proof box, aluminum alloy
Y3051		3051 explosion-proof box, aluminum alloy

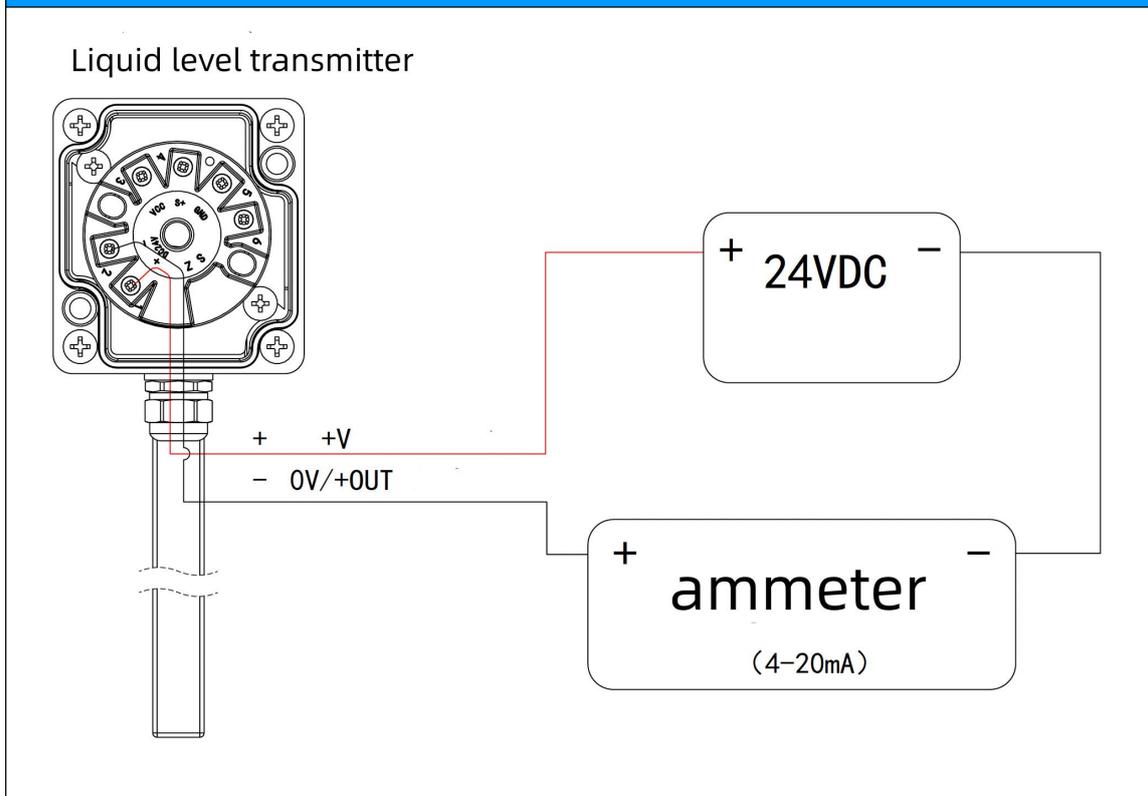
Electrical Connection

Two-wire current output (Other output, please consult the supplier)

<p>Ordering Code</p>	
<p>Y1, Square waterproof box, aluminum alloy</p>	
<p>Y2088, explosion-proof box, aluminum alloy</p>	
<p>Y3051, explosion-proof box, aluminum alloy</p>	 <ul style="list-style-type: none"> 1. Case 2. Internal ground terminal 3. External ground terminal 4. 4~20ma signal 5. Power supply- 6. Power supply+

Wiring Diagram

2-wire 4~20mA current output, Y1 Square waterproof box, aluminum alloy



Installation

Vertically installed, fixed on the outside of the main pipe of HYM-UZ Magnetic flap liquid level gauge with stainless-steel hoops.



Ordering Guide

Model No.	Type						
HYM880	Level transmitter (Equipped with Magnetic flap liquid gauge)						
	Level Range (0~X)mm	Measuring Range Fill out X directly					
		Code	Output Signal				
		B1	(4~20)mA				
		B7	RS485				
		B8	HART				
		Code	Accuracy				
		J10	10mm				
		J5	5mm				
		J20	20mm				
		Code	Junction Box				
		Y1	Square waterproof box				
		Y2088	2088 explosion-proof box				
		Y3051	3051 explosion-proof box				
		Code	Display				
		N	Without				
		D	on-site display				
		Code	Protection Tube Material				
		S4	304				
		S2	201				
		S6	316L				
		X	Customized				
		Code	Additional Functions				
		d	Exd II CT6				
		QF	With factory report				
					Other requests		
eg:HYM880	(0~800)mm	B1	J10	Y1	N	S4	