

DFP4600W type liquid level transmitter



Features

- All stainless steel welded structure design, small size and light weight
- Reliable performance, safe and convenient to use
- With short circuit protection and reverse polarity protection
- The housing protection grade of the sensor part is IP68, and the protection grade of the junction box housing is IP65.
- Intrinsically safe products comply with the requirements of GB/T 3836.1, GB/T 3836.4 and GB3836.20 standards, and the explosion-proof mark is Ex ia IIC T6 Ga

Overview

The DFP4600W type liquid level transmitter is a fully sealed embedded liquid level measuring instrument. This type of transmitter uses OEM pressure sensors that have undergone long-term stability and reliability tests and high-precision transmitter-specific circuits to be installed in a stainless steel housing. Integrated structure and standardized signals facilitate on-site use and automated control. Dedicated cables are sealed to the housing for long-term use in liquids compatible with the structural material of the transmitter.

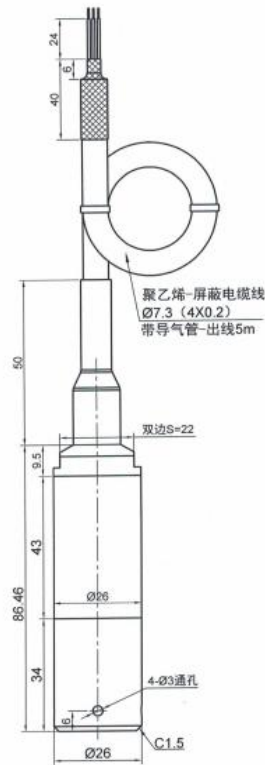
The DFP4600W type liquid level transmitter has high precision, small size, easy to use, and can be directly injected into the liquid to measure the liquid level from the end of the transmitter to the liquid level. It is suitable for water level measurement and control in petroleum, chemical, power plant, mining, urban water supply and drainage, hydrological exploration and other fields.

Technical Parameters

Pressure Parameters	
Measurement Range	0 mH ₂ O~1 mH ₂ O...200mH ₂ O
Overload	2 times full range pressure, 5 times overpressure for ranges below 5mH ₂ O
Pressure Type	Gauge pressure, absolute pressure
Electrical Specifications	

Output Type	Current type	Voltage type
Power Supply	9~30V DC	12~30V DC
Output Signal	4mA ~ 20mA DC (2-wire system)	0... 1V ~ 5... 10V DC (3-wire system)
Load Resistance	$\leq (U-9) / 0.02A (\Omega)$	$\geq 10k$
Insulation Resistance	100M Ω @100V DC	
Structural parameters		
CASE	Stainless steel	
sensor	316L stainless steel	
sealing ring	Fluorine rubber	
Cable	Cable for $\Phi 7.5mm$ polyethylene	
IP Grade	IP68	
environmental parameter		
Media suitability	Various fluids without corrosion to 316L stainless steel and fluorubber	
Compensation Temperature	-10°C ~ 80°C	
Operating Temperature	-20°C ~ 80°C	
Storage Temperature	-20°C ~ 85°C	
Performance		
Accuracy	$\pm 0.25\%$ FS (typical)	$\pm 0.5\%$ FS (max)
Zero Temperature Coefficient	$\pm 0.05\%$ FS/°C ($\leq 5mH_2O$) $\pm 0.02\%$ FS/°C ($> 5mH_2O$)	
Full temperature coefficient	$\pm 0.05\%$ FS/°C ($\leq 5mH_2O$) $\pm 0.05\%$ FS/°C ($> 5mH_2O$)	
Sensitivity error	$\pm 0.05\%$ FS/°C ($\leq 5mH_2O$) $\pm 0.05\%$ FS/°C ($> 5mH_2O$)	
LONG-TERM STABILITY STUDIES	$\pm 0.3\%$ FS/yr (max)	

Form Factor

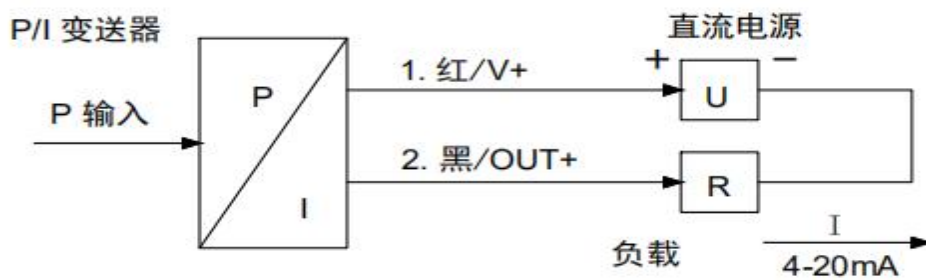


Standard Type

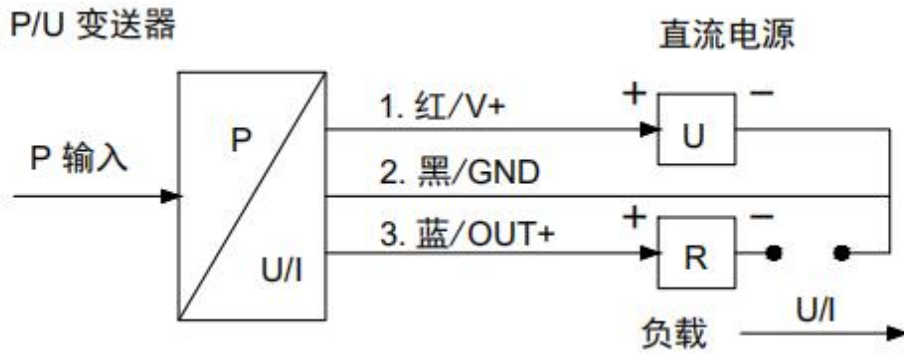
Electrical connection

Wiring Definition		
Cable color	Two-Wire System	Three-Wire System
Red	Power Supply positive: + V	Power Supply positive: + V
黑色	Signal: + out	Public: GND
Blue	Empty	Output: + out
Yellow	earth	earth

Connection diagram



2-wire 4mA ~ 20mA DC Output Electrical Connection Schematic



Schematic diagram of electrical connection of three-wire voltage output

Selection Guide

DFP4600W	Type Pressure Transmitter		
	Measurement Range	Measurement Range: 0mH ₂ O ~ 1mH ₂ O... 200mH ₂ O	
	[0~XmH ₂ O] L	X: actual range, L: cable length, it is recommended that L-X = (1 ~ 2) m	
	code	Output Signal	
	E	4~20mA DC	
	F	1V~5V DC	
	J	0V~5V DC	
	V	0V~10V DC	
	K	0.5V~4.5V DC	
	structural material		
	code	Isolation diaphragm	Interface
	22	Stainless Steel 316L	Stainless steel
	24	Stainless Steel 316L	Stainless Steel 316L
	25	Tantalum	Stainless steel
	code	FORNET SHOPS	
	bbPre	No certification requirements	
	ss Default		
	i	Intrinsically safe Ex ia IIC T6 Ga	
	code	Enclosure Structure	
	bbPre	Standard Type	
	ss		

						Default	
						code	Connecting box
						bbPress Default	Unmatched junction box
						Yb	Aluminum junction box without display
						M3	4-digit LCD digital display head
						M4	4-bit led digital display head
						code	Pressure Type
						G	Gauge type
						A	Absolute pressure type
DFP4600W [0 ~ 5mH2O] 6E22i G Full Specification Model							