Pressure and level transmitters

Submersible Level Transmitter, Embedded Pressure Port

Model CS-PT470

Submersible level transmitter with a diffused silicon sensor and embedded pressure port, 0–1... 350mH2O range, ±0.5%F.S accuracy and 4–20mA, voltage or RS485 output.



Range	Accuracy
0–1...350mH2O (customized)	**±0.5%F.S @25°C**
Output	**Supply voltage**
4–20mA	**12–30Vdc**

Features

- Embedded pressure port (customized)
- Anti-freezing, anti-blocking, anti-lightning strike
- Non-polarity two-wire current output
- IP68 electrical connector
- Intrinsically safe type available

Applications

Deep water level measurement, Hydrological monitoring, Water tank level monitoring, Water-saving irrigation, Circulating fluid monitoring

Specifications

Performance

Measure range	0–1...350mH2O (customized)
Overload pressure	1.5×RP (rated pressure)
Broken pressure	3.0×RP (rated pressure)
Accuracy	±0.5%F.S @25°C
Zero thermal error (0-3mH2O)	±1.25%F.S (0–50°C) @25°C
Zero thermal error (other ranges)	±1%F.S (-10–80°C) @25°C
Span thermal error (0-3mH2O)	±1.25%F.S (0–50°C) @25°C
Span thermal error (other ranges)	±1%F.S (-10–80°C) @25°C
Long term stability (0~3mH2O)	±0.5%F.S/year

Long term stability (other ranges)	±0.25%F.S/year
Response time	10ms
Pressure form	Gauge G, Absolute A

Electrical

Output signal (two-wire)	4–20mA
Output signal (three-wire)	0.5-4.5V / 0-10V
Output signal (four-wire)	RS485
Power supply (two-wire, 4~20mA)	12–30Vdc
Power supply (three-wire, 0.5-4.5V)	5Vdc
Power supply (three-wire, 0-10V)	12–30Vdc
Power supply (four-wire, RS485)	12–30Vdc / 3.1–4.2Vdc
Load (two-wire)	(U-10)/0.02(Ω)
Load (three-wire)	≥10kΩ
Supply current (three-wire)	≤8mA
Supply current (four-wire)	≤10mA (12–30Vdc) / ≤7mA (3.1–4.2Vdc)
Insulation	>100MΩ@50V

Environmental

Operate temperature	-40°C~+85°C (according to O-ring and cable)
Compensation temperature	-10°C~80°C
Random vibration	10g, 5–2000Hz
Shock	X/Y/Z, 20g, sine 11ms

Mechanical

Media compatibility	304 stainless steel; 316L stainless steel and Titanium optional
Seal material	NBR O-Ring, FKM optional
Electrical connector	IP68
Pressure port	Embedded type (customized)
Cable material	PE, PUR and FEP optional
Weight (excluding cable)	About 250g

Compliance

Compliant	CNEX, CE, UKCA
EMC	EN: 61326-1
Surge immunity	EN:61000-4-5: ±0.5KV, ±1KV, on I/O Ports & DC lines

Ordering information

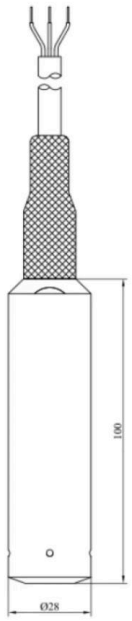
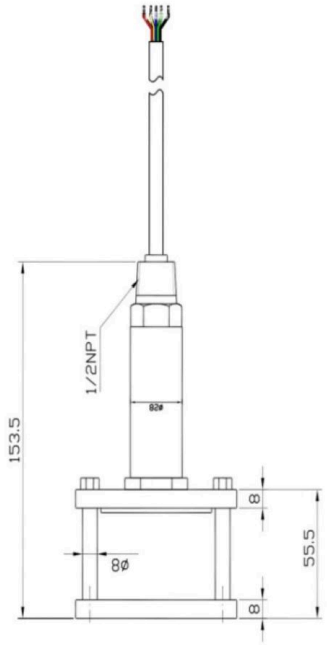
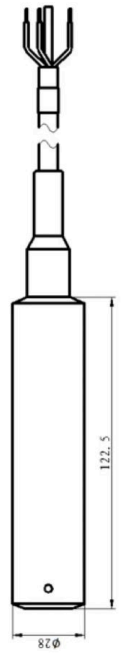
Type	- Universal; E Atex type; L Lightning; WH Filter nose; 2 Non-fouling; FD Freeze proof
Measurement range code	001Y 0-1m; 002Y 0-2m; 003Y 0-3m; 006Y 0-6m; 010Y 0-10m; 050Y 0-50m; 100Y 0-100m; 200Y 0-200m; 350Y 0-350m
Accuracy code	2 ±0.25%F.S; 5 ±0.5%F.S
Output signal code	A 4–20mA; V 0.5–4.5VDC; T 0–10VDC
Power supply code	02 5VDC; 13 12–30VDC
Seal material code	N NBR; H HNBR; C CR; F FKM; W Welded structure
Cable material code	PE PE; PU PUR; F4 FEP
Cable length code	01 1m; 02 2m; 04 4m; 05 5m; XX (blank)

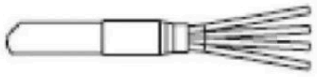
Ordering and support

Pricing, samples, lead time and custom versions: dwinsales@163.com, +86 181 0280 8901.

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Dimensions and wiring

CS-PT470/L/E/S	CS-PT470WH	CS-PT470-2	CS-PT470FD
			

	Line color	Line define		
		Two line	Three line	Four line
	Red	Supply power (U+)	Supply power (U+)	Supply power (U+)
	Green / Blue	Current output (IO)	Voltage output (VO)	RS485+
	White			RS485-
	Black		GND	GND
	Yellow	Shield (PE)	Shield (PE)	Shield (PE)



Drawings are for reference. Dimensions in millimetres unless stated.