Pressure and level transmitters

Ceramic Pressure Transmitter, Selectable Output

Model CS-PT1200

General-purpose ceramic piezo-resistive pressure transmitter, 0~50bar gauge, 0.5 %BFSL or 1%BFSL accuracy, with current or voltage output and CE and RoHS certification.



Range	Output
0–50bar Gauge	**0.5–4.5V Ratio**
Protection	Supply voltage
≥ IP65	**5VDC**

Features

- 4–20mA, 0–10V or 0–5V outputs
- DIN43650C, Packard, M12x1 or cable outlet
- G1/4, 7/16-20UNF, NPT1/4 or G1/2 connection
- 304 stainless housing, 316L optional
- Ingress protection ≥ IP65

Applications

Pumps and compressors, Hydraulic and pneumatic systems, Machinery manufacturing, General pressure measurement

Specifications

Performance parameters

Reference conditions	Temperature 25°C, power 5VDC or 12VDC, RH 45%~75%, atmospheric pressure 86KPa~106KPa
Pressure range	0–50bar Gauge
Accuracy at room temperature	Default: ±0.5% F.S., Option: ±1.0% F.S. (see Note 1)
Long-term stability	±0.5%F.S / year
Settling time	(10%~90%) ≤10ms
Overload pressure	≥ 150%F.S
Burst pressure	≥ 200%F.S

Electrical

Output signal (ratio voltage)	0.5–4.5V Ratio

Output signal (voltage)	0–10V Voltage / 0–5V Voltage
Output signal (current)	4mA~20mA
Power supply (u+) (ratio voltage output)	5VDC
Power supply (u+) (0~10V output)	12–30VDC
Power supply (u+) (0~5V and 4~20mA outputs)	10VDC~30VDC
Output load (voltage outputs)	≥10KΩ
Output load (4~20mA output)	≤ (U+ - 10) / 0.023Ω
Over voltage (ratio voltage output)	16VDC
Over voltage (other outputs)	30VDC
Reverse voltage (ratio voltage output)	-16VDC
Reverse voltage (other outputs)	-30VDC
Electrical connection	DIN43650C, Packard, M12x1, Cable outlet, Sheathed cable outlet
Insulation resistance	≥ 100MΩ@100VDC

Environmental

Medium temperature	-30–120°C (see Note 2)
Working temperature	-20–85°C
Storage temperature	-40°C~105°C
Vibration resistance	10g, 5–2000Hz
Shock resistance	20g, 11ms half sine

Mechanical

Pressure connection	G1/4, 7/16-20UNF-2B female, 7/16-20UNF-2A male, NPT1/4, G1/2
Sealing materials for wetted part	Default: NBR, Option: FKM
Housing material	Default: 304 stainless steel, Option: 316L stainless steel
Ingress protection	≥ IP65

Notes

Note 1	For products with pressure range 0–5 bar (5bar included), only ±1.0%F.S accuracy is available.
Note 2	The choice of seal material mainly depends on the medium temperature. The default NBR suits -30–120°C; with an FKM seal ring the medium temperature should be between -20–125°C. Please specify if the medium temperature exceeds 85°C for long.

Ordering and support

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

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