Pressure and level transmitters

Diffused Silicon Pressure Transmitter, 0.07 to 1000bar

Model CS-PT300S

Oil-filled diffused silicon pressure transmitter for ranges from 0 ... 0.07 to 0 ... 1000bar, with 4–20mA output, ±0.5%F.S standard accuracy and IP65 protection.



Range	Output
0 ... 0.07 to 0 ... 1000bar	8–30 VDC
Protection	**Supply voltage**
IP65	13–28 V

Features

- 4–20mA, 0–10V or 0–5V outputs
- DIN43650 A/C, M12 x 1, Metri-Pack or cable outlet
- G1/2, G1/4, M20*1.5, NPT1/2, NPT1/4 connections
- Connector material 304 stainless default, 316L or titanium
- Forward and reverse overvoltage protection

Applications

General industrial measurement, Development and research measurement

Specifications

Performance specifications

Reference conditions	Temperature 25°C; power supply 5VDC for ratio voltage output, and 12VDC for others; relative humidity 45%~75%; ambient atmospheric pressure 86KPa~106KPa
Pressure range	0 ... 0.07 to 0 ... 1000bar
Proof pressure	≥150%F.S
Accuracy at 25°C	±0.5%F.S standard, ±1%F.S optional, include no-linearity, hysteresis, repeatability, and calibration error
Long-term stability	±0.25%FS/year
Response time	≤10ms

Electrical

Output signal (current)	4–20mA
Output signal (voltage)	0–5VDC / 1–5VDC / 1–6VDC / 0–10V (note 1)
Supply voltage (4~20mA, 0~5VDC, 1~5VDC, 1~6VDC outputs)	8–30 VDC
Supply voltage (0~10V output)	13–28 V
Current without load (voltage outputs)	≤ 8 mA
Output load (4~20mA)	≤ (U-8) / 0.023Ω
Output load (voltage outputs)	≥10KΩ
Overvoltage	30VDC
Reverse voltage	-30VDC
Insulate resistance	≥100MΩ@100VDC
Electrical connection	DIN 43650 A/C or M12 x 1 or Packard or Cable outlet or others

Environmental

Operating temperature	-40°C~85°C, but can't beyond the temperature of seal material
Compensated temperature	0°C~50°C
Storage temperature	-40°C~105°C
Random vibration	10g, 5–2000Hz
Shock	X/Y/Z, 20g, sine 11ms
Drop (any axis)	1m

Mechanical

IP rating	IP65
Pressure connector	G1/2, G1/4, M20*1.5, NPT1/2, NPT1/4 and others
Connector material	304 stainless steel default, 316L stainless steel and Titanium optional
Seal material	NBR O-Ring default (-20°C~+100°C), FKM optional (-15°C~+135°C) or others

Notes

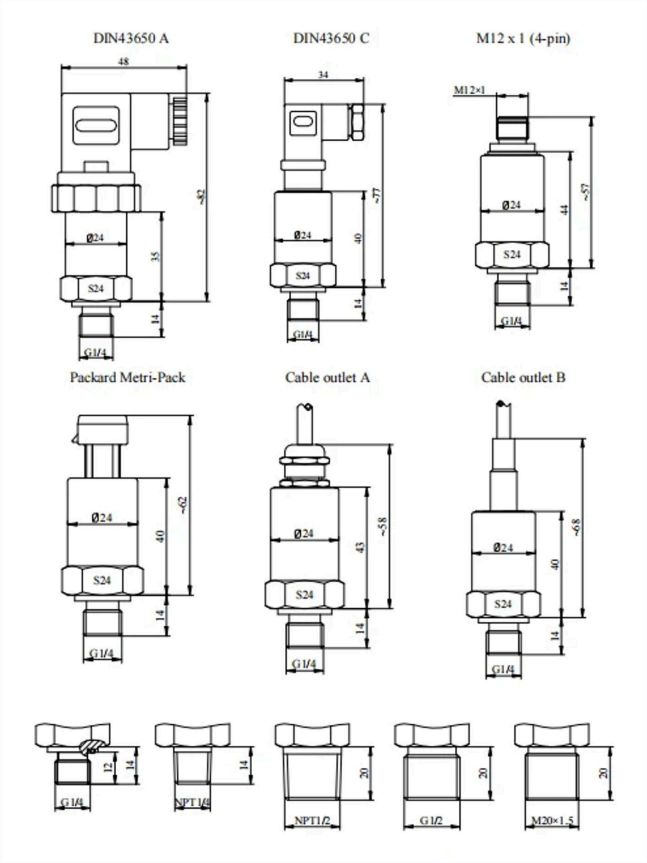
Note 1	For 0–5VDC and 0–10VDC output, the 0 is not a real zero output; the minimum output voltage is 50mVDC.

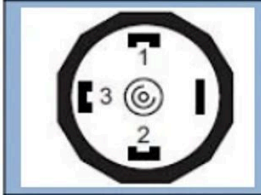
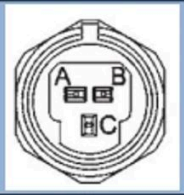
Ordering and support

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

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Dimensions and wiring



DIN 43650 A		Packard Metri-Pack	
	U+ / I+ = 1 U- / I- = 2 S+ = 3 Shield = 4 / Housing		U+ / I+ = B U- / I- = A S+ = C Shield = Housing
DIN 43650 C		**Cable outlet**	
	U+ / I+ = 1 U- / I- = 2 S+ = 3 Shield = 4 / Housing		U+ / I+ = Red U- / I- = Black S+ = Green / Blue Shield = Housing / Yellow
M12 x 1(4 Pin)			
	U+ / I+ = 1 U- / I- = 3 S+ = 4 Shield = 2 / Housing		

Drawings are for reference. Dimensions in millimetres unless stated.