Pressure and level transmitters

Flush Diaphragm Pressure Transmitter, Diffused Silicon

Model CS-PT300F

Pressure transmitter with a flush diaphragm and oil-filled diffused silicon element, covering -100 kPa to 35 MPa with ±0.5% standard accuracy and a fully welded body.



Range	Output
-100KPa...0–20KPa...35MPa	0.5–4.5V ratio voltage
Protection	**Supply voltage**
IP65	5VDC

Features

- Diffused silicon, oil-filled sensing element
- Flush diaphragm with large wetted area
- Fully welded construction
- G1/2, G3/4, M20×1.5, NPT1/2 or clamp connections
- Corrosion resistant, easy to clean

Applications

Food and beverage production, Pharmaceutical and biotech processing, Vacuum conveyor and pump monitoring, Filling and packing machinery, Dosing technology

Specifications

Performance parameters

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	-100KPa...0–20KPa...35MPa
Accuracy at room temperature	Default: ±0.5%, Option: ±0.25% and ±1.0%
Long-term stability	±0.25%FS/year
Settling time	(10%~90%) ≤10ms
Overload pressure	≥150%F.S
Burst pressure	≥300%F.S

Electrical	
Output signal (ratio voltage)	0.5–4.5V ratio voltage
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) / 0.023 Ω
Over voltage (ratio voltage output)	16VDC
Over voltage (other outputs)	30VDC
Reverse voltage (ratio voltage output)	-16VDC
Reverse voltage (other outputs)	-30VDC
Electrical connection	DIN43650A, Packard, Cable outlet, M12x1
Insulation resistance	≥100MΩ@100VDC
Insulation strength	500VDC@60second

Environmental	
Working temperature	-25°C~85°C
Compensation temperature	0°C~50°C
Storage temperature	-40°C~105°C
Vibration resistance	10g, 5–2000Hz
Shock resistance	20g, 11ms half sine

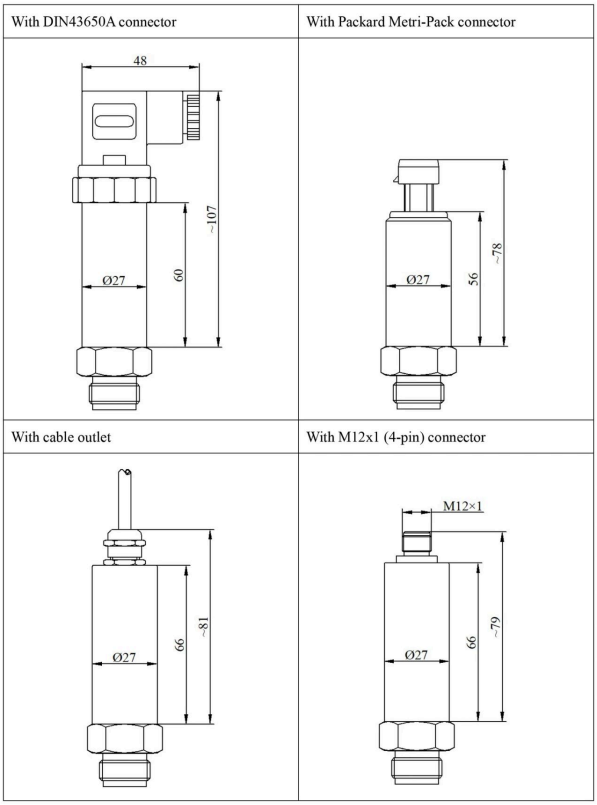
Mechanical	
Pressure connection	G1/2, G3/4, M20×1.5, NPT1/2, 1.5" Clamp, 2" Clamp
Sealings for pressure connection	Default: NBR, Option: FKM
Housing material	Wetted part: 316L, the rest part: 304
Ingress protection	IP65

Ordering and support

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

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Dimensions and wiring



Drawings are for reference. Dimensions in millimetres unless stated.