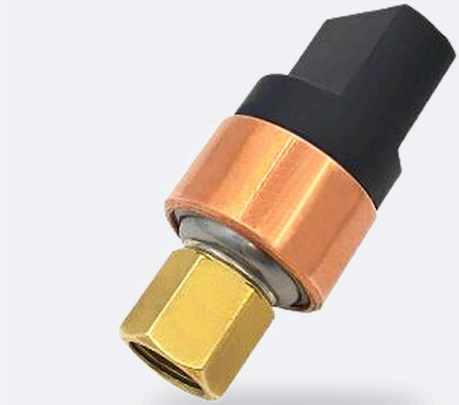
Pressure and level transmitters

Welded Refrigerant Pressure Transmitter, 0.5–4.5V Ratio

Model CS-PT300M

Fully welded refrigerant pressure transmitter with 0.5–4.5V ratio output on a 5VDC supply, -1–10... 50bar sealed gage, ±1%F.S accuracy at 25°C and IP67 protection.



Range
-1–10...50bar (Sealed Gage)

Protection
IP67

Supply voltage
5±0.25VDC

Features

- Silicon oil sensor, sealed gage
- All welded, no O-rings, no leakage risk
- Resists condensation water
- 7/16-20UNF-2B pressure connector
- Forward and reverse overvoltage protection

Applications

Industrial refrigeration units, Multi-line air conditioning, Precision computer room air conditioning, Air source heat pumps

Specifications

Performance specifications

Reference conditions	Temperature 20–25°C; power supply 5VDC; relative humidity 45%~75%; ambient atmospheric pressure 86KPa~106KPa
Pressure range	-1–10...50bar (Sealed Gage)
Standard range a	-1–12bar
Standard range b	0–20bar
Standard range c	0–46bar
Standard range d	0–50bar
Overload pressure	300%F.S (≤105bar)
Burst pressure	500%F.S (≤175bar)

Accuracy at 25°C	±1%F.S (include no-linearity, hysteresis, repeatability, and calibration error) Note 1
Full temperature zone accuracy	±2%F.S (include no-linearity, hysteresis, repeatability, and calibration error) Note 1
Long-term stability	±0.25%F.S/year
Response time	(10%~90%) ≤10ms

Electrical

Output signal	0.5–4.5VDC (Ratio) Note 2
Supply voltage	5±0.25VDC
Current without load	≤ 8 mA
Output load	≥10KΩ
Over voltage	18VDC
Reverse voltage	-18VDC
Insulate resistance	≥100MΩ@500VDC
Dielectric strength	1800VAC@1s or 1500VAC@1min (no spark, arc, no damage)
Electrical connection (brass connector version)	Epoxy-encapsulated leads + XHP-3 connector
Electrical connection (316L SS connector version)	Packard

Environmental

Medium temperature	-40°C~125°C
Compensated temperature	-35°C~105°C
Storage temperature	-35°C~105°C
Random vibration	10g, 5–2000Hz
Shock	X/Y/Z, 20g, half-sine 11ms
Drop (any axis)	1m

EMC

ESD	Contact ±8kV, air ±15kV
EMC	EN 61000-6-2, EN 61000-6-3

Mechanical

IP rating	IP67
Pressure connector	7/16-20UNF-2B
Shell material (brass connector version)	Brass connector + pure copper housing Note 3
Shell material (316L SS connector version)	316L SS connector + 304 SS shell
Seal material	Same as connector material

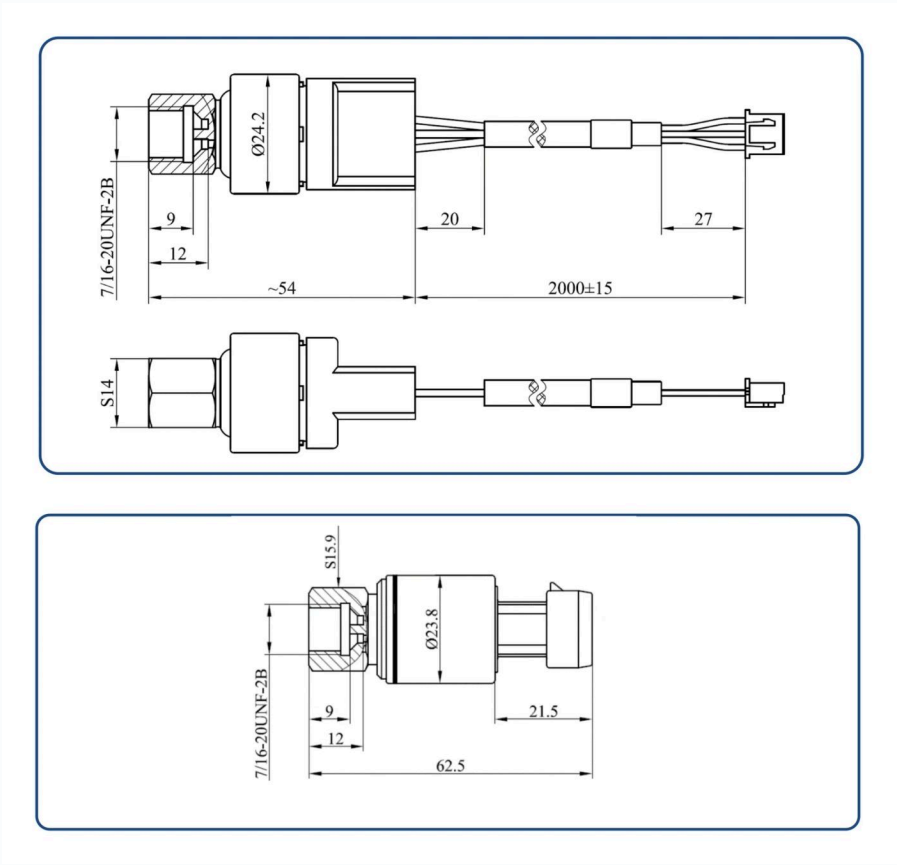
Notes	
Note 1	0barG=101.325kPaA (define 1 atm as 0bar)
Note 2	Default full-scale output is 4.5VDC without clamping. If the product is overloaded the output exceeds 4.5VDC but remains linear with input pressure; with continued overload the output cut-off voltage is 4.95VDC.
Note 3	High temperature and high humidity storage will oxidize and discolor the brass connector and pure copper housing; this does not affect sensor function or performance.

Ordering and support

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

Guangzhou Dwin Technology Co., Ltd., 4th Floor, Building 2, No. 4 Xingye Road, Xiaowu Second Industrial Zone, Dongyong Town, Nansha District, Guangzhou, China. Specifications are typical values and may change without notice; confirm critical values with DWIN before design-in. Revision 2026-11.

Dimensions and wiring



Drawings are for reference. Dimensions in millimetres unless stated.