Pressure and level transmitters

Welded Refrigerant Pressure Transmitter, 4–20mA or 0.5–4.5V

Model CS-PT300G

Fully welded pressure transmitter for refrigerant circuits, -1–10...50bar sealed gage, with 4–20mA or 0.5–4.5V ratio output, ±0.5%F.S accuracy and IP67 protection.



Range
-1–10...50bar (Sealed Gage)

Output
0.5–4.5 VDC (Ratio)

Protection
IP67

Supply voltage
10–30 VDC

Features

- Silicon oil sensor, sealed gage
- All welded, no O-rings, no leakage risk
- Resists condensation water
- Packard Metri-Pack, M12 (4-pin) or waterproof outlet
- Forward and reverse overvoltage protection

Applications

Air conditioning systems, Heat pump units, Industrial refrigeration units, Cold water screw units, Energy storage units

Specifications

Performance specifications

Reference conditions	Temperature 20–25°C; power supply 12VDC (4–20mA), 5VDC (0.5–4.5VDC Ratio); relative humidity 45%~75%; ambient atmospheric pressure 86KPa~106KPa
Pressure range	-1–10...50bar (Sealed Gage)
Standard range a	-1–12bar
Standard range b	0–12bar
Standard range c	-1–16bar
Standard range d	0–16bar
Standard range e	0–30bar

Overload pressure	300%F.S (≤105bar)
Burst pressure	500%F.S (≤175bar)
Accuracy at 25°C	±0.5%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 (current)	4–20mA
Output signal (voltage)	0.5–4.5 VDC (Ratio)
Supply voltage (4~20mA)	10–30 VDC
Supply voltage (ratio output)	5±0.25VDC
Current without load (ratio output)	≤ 8 mA
Output load (4~20mA)	≤ (U-10) / 0.023 Ω (Max: 600Ω)
Output load (ratio output)	≥ 10KΩ
Overvoltage (4~20mA)	30VDC
Overvoltage (ratio output)	18VDC
Reverse voltage (4~20mA)	-30VDC
Reverse voltage (ratio output)	-18VDC
Insulate resistance	≥100MΩ@500VDC
Dielectric strength	500VDC@1min (no spark, arc, no damage)
Electrical connection	Packard Metri-Pack, M12 (4-pin), Waterproof outlet

Environmental

Medium temperature	-40°C~125°C
Ambient temperature	-35°C~105°C
Compensated temperature (≤20bar)	-20°C~60°C
Compensated temperature (>20bar)	-10°C~80°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 ±4kV, air ±8kV
EMC	EN 61000-6-2, EN 61000-6-3

Mechanical

IP rating	IP67
Pressure connector	7/16-20UNF-2B, 7/16-20UNF-2A
Connector material	316L stainless steel
Seal material	Same as connector material

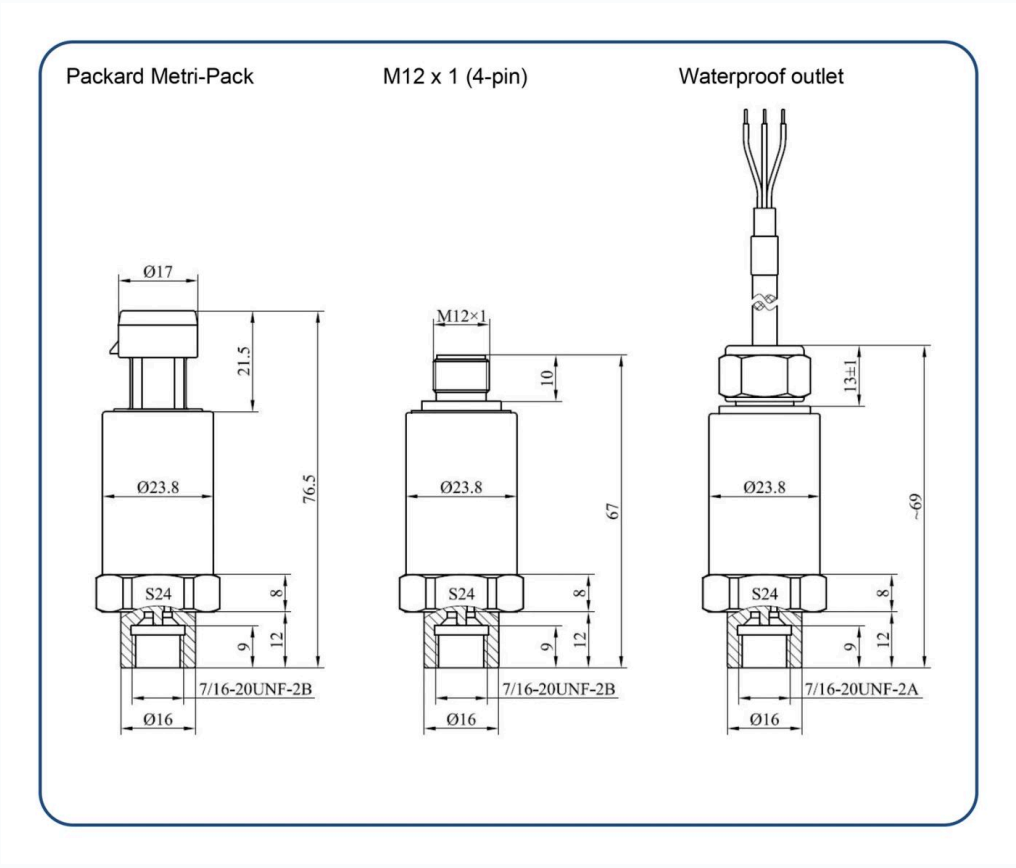
Notes	
Note 1	0barG=101.325kPaA (define 1 atm as 0bar)

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.