

OEM PRESSURE TRANSMITTER

OEM Pressure Transmitter for Refrigeration and Ventilation

PTS2008

Standard output: 4...20 mA; 2-wire system

or 0...10 VDC; 3-wire system or 0.5...4.5 VDC; 3-wire system



Application area in refrigeration and ventilation technology

The model PTS2008 pressure transmitter has been optimally designed for the specific requirements of refrigeration and ventilation technology. Its monolithic construction dispenses with the need to use seals on the process side.

This enables the model PTS 2008 to be used with all typical refrigerants (e.g. Freon and Ammonia).

Excellent reliability

The hermetically-welded, dry, thin-film cell ensures long-term leak tightness. Moreover, these efficient cells, made with a sputtering technique, feature high long-term stability and a very high burst pressure.

The pressure sensor complies with electromagnetic compatibility requirements (EMC) as per EN 61326.



Features

- O Wetted parts from stainless steel
- O Resistant to all common refrigerants
- O Special case design for the best possible condensation tightness
- O Private labelling possible

Measuring ranges

Relative Pressure Range 0...2bar/0...400bar

Applications

Refrigeration

Ventilation

Tel.: +1-302-746-2208

www.ineq-spec.com

Fax.: +1-302-746-2208-0

Email: info@ineq-spec.com

Technical data

Type	PTS2008					
Pressure type	positive or negative gauge pressure					
- measuring ranges [bar]	02 bar to 0400 bar -17 bar -19 bar 030 bar other measuring ranges on request					
- overrange limit [bar]	≤40 bar 2 x; >40 bar 1,6 x					
- burst pressure [bar]	6 x					
Sensor element	thin film					
Signal and Signal Type	420 mA 2-wire system 010 VDC 3-wire system 0,54,5 VDC ratio. 3-wire system					
Non-linearity Accuracy Stability annual	≤± 0.5 % BFSL according to IEC 61298-2 ≤± 0.5 % of F. S ¹⁾ ≤0,3 (at reference condition)					
Material						
case medium wetted parts	Stainless steel Stainless steel Highly resistive, fibreglass- enforced plastic (PBT GF 30)					
Pressure connection	7/16-20 UNF-2A 7/16-20 UNF Schrader female screw thread G1/4 B acc. to EN 837 1/4 NPT 1/8 NPT					
Electrical connection	Circular connection M12x1 (4-pin) (IP 67) Connector Metri Pack Serie 150 flying lead 1m DIN43650 Plug other electrical connection on request					
Power Supply	Maximum load R _A	Power Supply Depends On Output Signal				
DC 730V	$R_A \le (U_B - 9V) / 0.02 A$	420 mA				
DC 1430V	$R_A > 10 \text{ kOhm}$	010 V				
DC 4.55.5V	$R_A > 4.5 \text{ kOhm}$	0,54,5 V				
Response Time	≤5 ms inside of 10% bis 9					
RoHS-conformance		50 /0 Or range				
CE-conformity	yes 2004/108/EG transient emissions (Group 1, Class B) and immunity according to EN61326 Emission					
Electrical protections	0					
Short-circuit protection	Sig+ towards 0V					
Reverse polarity protection	U _{B+} towards 0V					
Overvoltage protection	36 VDC					
Temperature influence Zero point Span	typ. ≤0,5% / 10K ≤0,3% / 10K					
Temperatures of Compensated temperature range Storage Medium Ambience Weight	-2580°C -2580°C -4080°C / -40135°C -2580°C ca. 0,085					

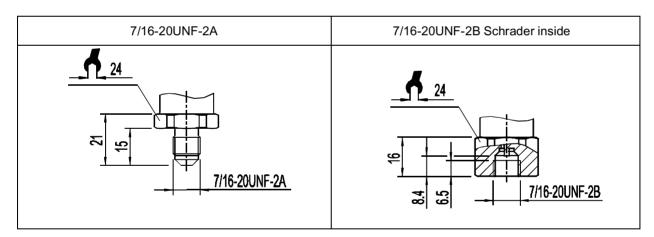
Including non-linearity, hysteresis, zero point and full scale error (corresponds to error of measurement according to IEC 61298-2)

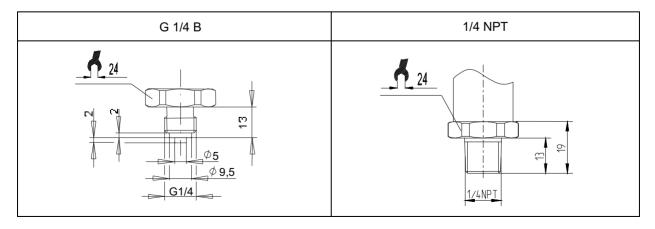
Dimensions (mm)

Case

Circular connector M12x1	DIN 43650 Plug	Moulded cable connection with flying lead	
Z4 Ø 24	24	9g Ø 24	

Pressure connections

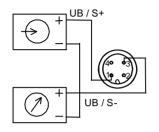




Electrical connections

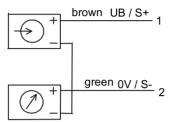
2- wire systems

Circular connector M12x1



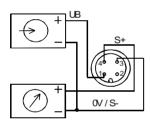
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Moulded cable connection with flying lead / DIN 43650 plug

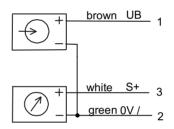


3- wire systems

Circular connector M12x1



Moulded cable connection with flying lead / DIN 43650 plug



Connection table for connector or moulded cable connection with flying leads

	420 mA (2-wire system)			010VDC / 0.54.5VDC				
				(3-wire system)				
	Conector	connecto r	Flying lead	DIN 43650	connector	connector	Flying lead	DIN 43650
	M12x1	Metri		Plug	M12x1	Metri		Plug
Supply: UB+	1	В	brown	1	1	В	brown	1
Supply: 0V	3	Α	green	2	3	Α	green	2
Signal: S+		-	1		4	O	white	3
Signal: S-		-	-		3	Α	green	2

Ordering informations

- 1. Type
- 2. Measuring range
- 3. Signal output

4. Options

Modifications reserved