

OEM Pressure sensors for the refrigeration and ventilation technology Model P3307

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

or 0...10 VDC; 3- wire technology

or 0.5...4.5 VDC; 3- wire technology





Description

The key strengths of these compact pressure sensors intended for refrigeration and air conditioning systems are their robustness and good long-term stability. Their attractive price level and technical specifications make them optimally suited to OEM applications.

Optimal resistance to dew formation and to attack by all of the main refrigerants is the hallmarks of these compact pressure sensors. Elements wetted by the measuring medium are made of brass, ceramic and chloroprene. The compact design makes space- and weight-saving installation possible.

A wide variety of electrical and mechanical pressure connections also allows the optimal solution to be chosen for any application that involves refrigeration or air conditioning systems. Furthermore, the electrical connecting cable output offers an IP69K degree of protection.

The pressure sensors are conformant to electromagnetic compatibility (EMC) standard EN 61326.

Features

- O RoHS-conformity
- O Condensation tight
- O High load cycle stability
- O For dynamical snd statical measurement
- O Costumized pin-configuration is possible

Measuring ranges

-1 / 0...6 bar to -1 / 0...60 bar

Applications

Refrigeration and ventilation technology,

Compressors,

Coolers,

Condenser,

Water chiller

Model: P3307

Technical data

positive or negative 06 bar bis 060 -17 bar -19 bar ≤ 16 bar 2x; >16 b 2 x ceramic Al ₂ O ₃ 96% 420 mA, 010 VDC, 0.54,5 VDC ratio	bar ar 1,6x	Other on request
-17 bar -19 bar ≤ 16 bar 2x; >16 b 2 x ceramic Al ₂ O ₃ 96% 420 mA, 010 VDC,	ar 1,6x	Other on request
2 x ceramic Al ₂ O ₃ 96% 420 mA, 010 VDC,		
ceramic Al ₂ O ₃ 96% 420 mA, 010 VDC,		
420 mA, 010 VDC,		
010 VDC,	2 wire technology	
<u> </u>		
≤ 2,0% of measurem		
O-ring: CR70 (Chlor against refrigerant F		
7/16-20 UNF-2A 7/16-20 UNF-2B G1/4 B nach EN 837 1/4 NPT 1/8 NPT		
Connector plug Metr	Other on request	
Power supply	Permissible max. resistance R _A	
730 VDC	$R_A \le (U_B - 7V) / 0.02 A$	
1430 VDC	$R_A > 10 \text{ kOhm}$	
5 ± 0.5V	$R_A > 4.5 \text{ kOhm}$	
≤ 5ms inside of 10%		
500 VDC		
yes		
(group 1, class B)		
Sig+ against 0V U _{B+} against 0V 36 DC		
typ. ≤ 0.5% / 10K ≤ 0.3% / 10K		
080°C -2580°C -4080°C -2580°C		
	010 VDC, 0,54,5 VDC ratio., ≤ 2,0% of measuren brass brass, ceramic Al ₂ O, O-ring: CR70 (Chloragainst refrigerant Filiphiliphiliphiliphiliphiliphiliphilip	010 VDC, 3- wire technology 0,54,5 VDC ratio., 3- wire technology $0.54,5$ VDC ratio., 3- wire techno

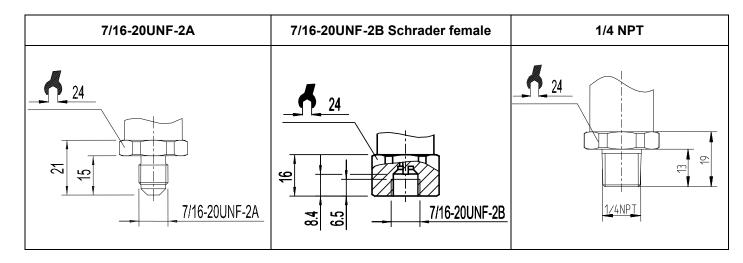
¹⁾ Incl. non-linearity, hysteresis, zero point- and full scale value-variations (conform to measurement-variations acc. to IEC 61298-2)

Dimensions (mm)

Case

Round plug connector M12x1	Connector Plug Metri Pack Serie 150	Cable outlet
0 22	Ø 22	9 22 9 22

Pressure connections



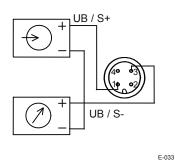
Electrical connections

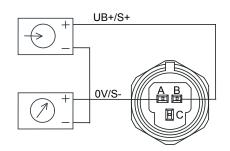
Two-wire system

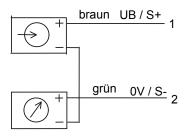
Round plug connector M12x1

Connector Plug Metri Pack 150

Cable outlet





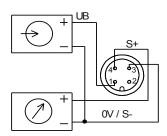


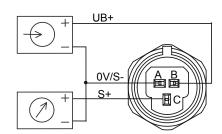
Three-wire system

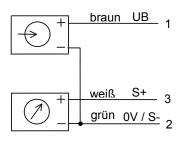
Round plug connector M12x1

Connector Plug Metri Pack 150

Cable outlet







Connection table for plug or cable outlet

	420 mA (2 - Leiter)			010VDC (3 - Leiter)			
	Connector M12x1	Connector Metri	Cable outlet	Connector M12x1	Connector Metri	Cable outlet	
Power supply: UB+	1	В	brown	1	В	brown	
Power supply: 0V	3	Α	green	3	Α	green	
Signal: S+		-	-	4	С	white	
Signal: S-		-	-	3	Α	green	
Protection	IP 67		IP 69K	IP 67		IP 69K	
Lead cross-section			3 x 0.14 mm ²			3 x 0,14 mm ²	
Cable diameter			3.2 mm			3,2 mm	
	The specified protection apply only in the plugged condition with the cable connectors according to protection						

Order details

- 1. Model
- 2. Measuring range
- 3. Output signal
- 4. Options

Modifications reserved