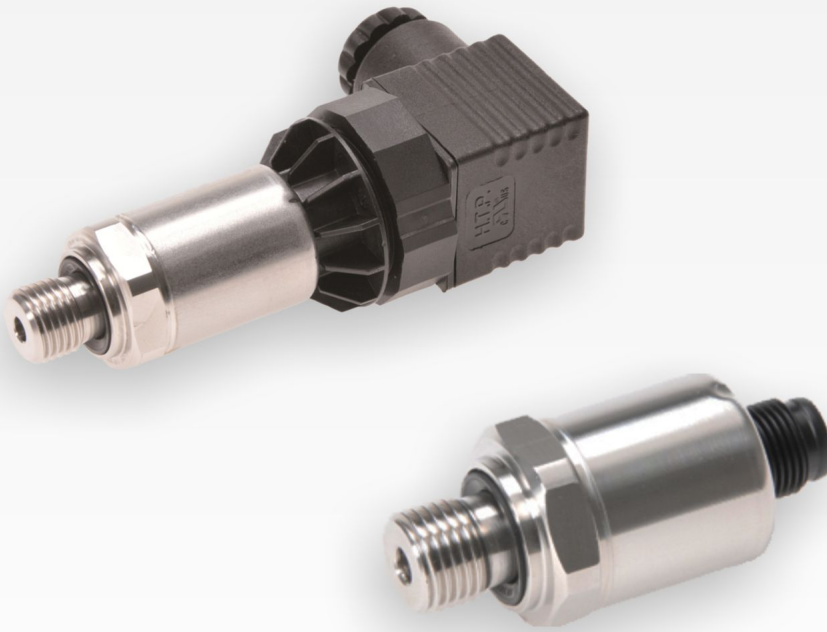




Pressure transmitter Pressotronik 702

Monitoring the oil pressure is essential in hydraulic systems and oil supply systems. It's important to monitor both process-related pressure ranges as well as safety shutdowns, load limits or simply to determine if the lubricating pressure is adequate.

The pressure transmitters must meet a variety of requirements with respect to their pressure resistance, signal output, programmability or the plug connection style. A local or status display is often required for safety reasons.

The Pressotronik 702 pressure transmitters have a compact installation size, different connector plugs and fine-tuned pressure levels ranging from low-pressure to high pressure range.

Pressure ratings up to 600 bar (8700 psi)

Compact and robust design

Stainless steel measuring cell

Pressure measuring cell welded seal-free with pressure sensor, no elastomer seal

High burst strength

2 plug connection options available



Technical Data Pressotronik 702
Pressure Transmitter Pressotronik 702

Pressure ranges	0 - 10 bar (0 - 145 psi) 0 - 25 bar (0 - 362 psi) 0 - 100 bar (0 - 1450 psi) 0 - 250 bar (0 - 3625 psi) 0 - 400 bar (0 - 5800 psi) 0 - 600 bar (0 - 8700 psi)
Medium	Liquids, gasses and refrigerants, incl. ammonia
Pressure connection	G1/4 male thread, DIN 3852 Form E with profile gasket FPM
Overload <i>higher values upon request</i>	3 x limit at 10 to 600 bar (145 to 8700 psi) (but max. 1500 bar/21756 psi)
Burst pressure	6 x terminal value (max. 2500 bar /36259 psi)
Mounting position	any
Weight	approx. 90 g (0.18 lb)
Material	
Housing	1.4305
Connector holder	Polyarylamide 50 % GF VO
Materials in contact with media	
Pressure connection	Stainless steel 1.4404 / AISI 316L
Measuring element	Stainless steel
Temperature	
Medium	-30 °C to +135 °C (-22...275 °F)
Ambient temperature	-30 °C to +85 °C (-22...185 °F)
Storage	-50 °C to +100 °C (-58...212 °F)

Electrical data

Response time	<= 2 ms / typical 1 ms
Load cycle	<= 100 Hz
Supply voltage (U _b)	7 - 33 V DC
Power input	<= 23 mA
Output signal	4 - 20 mA, 2 wire
Load Ω	= (U _b -7 V) / 0.02 A
Reverse polarity safety	Short circuit and reverse polarity safety (each connection to each with max. voltage)
Connection	M3 (IP 65)
<i>other versions on request</i>	M12 (IP 67) / Delivered without connector head

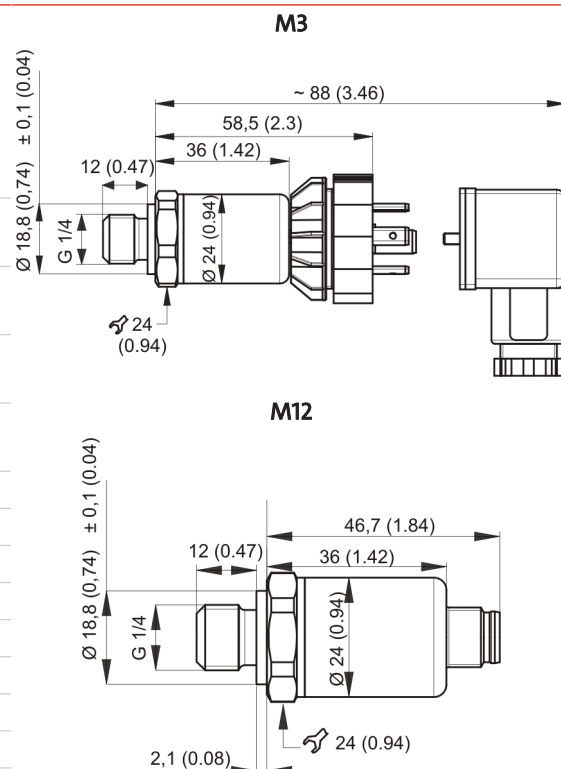
Accuracy (test conditions: 25 °C, 45 % RH, supply 24 VDC)

Characteristic*	± 0.3 % FS
Resolution	0.1 % FS
Thermal behaviour**	± 0.2 % FS/10K
Long-term stability (1 year) per IEC 61298-2	± 0.25 % FS

*Typical; max. 0.5 % FS, ** -15 °C to +85 °C (5 to 185 °F)

Certificates/Approvals

Electromagnetic compatibility	CE compliant per EN 61326-2-3
Shock per IEC 60068-2-27	100 g (0.2 lb), 11 ms, half-sine curve, all 6 directions, free fall from 1 m (39.37 inch) onto concrete (6x)
Continuous shock per IEC 60068-2-29	40 g (0.08 lb) over 6 ms, 1000x all 3 directions
Vibration per IEC 60068-2-6	20 g (0.04 lb), 15...2000 Hz, 15...25 Hz with amplitude ± 15 mm (0.59 inch), 1 octave/minute all 3 directions, 50 continuous loads

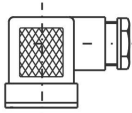
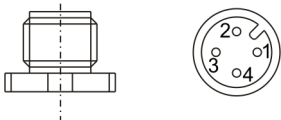
Dimensions


Ordering instructions Pressotronik 702

	PT 702	XXX	XXX	
Series				Plug connection
Pressure range				M3
010	0 - 10 bar (0 - 145 psi)			M12
025	0 - 25 bar (0 - 362 psi)			
100	0 - 100 bar (0 - 1450 psi)			
250	0 - 250 bar (0 - 3625 psi)			
400	0 - 400 bar (0 - 5800 psi)			
600	0 - 600 bar (0 - 8700 psi)			

Item no.	Description	
9144050010	Connecting cable	M12x1, 1.5 m (4.9 ft), angled coupler and straight plug
9144050046	Connecting cable	M12x1, 3.0 m (9.8 ft), angled coupler and straight plug
9144050047	Connecting cable	M12x1, 5.0 m (16.4 ft), angled coupler and strands

Standard pin assignment Pressotronik 702

	M3 valve connector 3-pin + PE DIN EN 175301-803-A IP65	M12 plug A coded 4-pin DIN EN 61076-2-101 IP67
Plug connection		
Pin assignment 2 lead	1 +24 V DC 2 4-20 mA out 3 - PE*	1 +24 V DC 2 3 4-20 mA out 4

* not connected to transmitter housing.