

OEM Pressure Sensors “TecTrans”

For general applications

Accuracy 1%

Standard output: 4...20mA; 2-wire
 or 1...5VDC; 3-wire
 or 0...10VDC; 3-wire
 or 0.5...4.5VDC; ratiometric



Description

The TecTrans is a high performance OEM pressure transducer that is designed to meet the requirements of the most demanding applications.

The sputtered thin film strain gauge technology provides excellent stability and a high burst pressure rating. This makes it a good choice for a range of applications that include refrigeration, pneumatic and hydraulic controls. It offers a compact size but with a variety of pressure and electrical connections to match the installation requirements.

A high degree of automation is used to produce the TecTrans pressure transducer, which enhances consistency and reliability.

Features

- o Measuring ranges from 0...6bar to 0...60bar
- o Compact design
- o High long-term stability
- o High peak pressure resistance
- o Protection up to IP67

Applications

Hydraulics
 Pneumatics
 Pumps
 Machine and plant construction
 Refrigeration

Model: P3355

Technical data

Model P3355

Pressure type	positive gauge pressure					
- Ranges [bar]	6	10	16	25	40	60
- Overload limit [bar]	20	20	32	50	80	120
- Burst pressure [bar]	100	100	160	250	400	550
Sensor element	Thin film					
Output signal	4...20mA 2- wire 1...5VDC 3- wire 0...10VDC 3- wire 0.5...4.5VDC ratiometric other signals on request					
Accuracy ¹⁾	1.0% of F.S. (0.5 % BFSL) 2.0% of F.S. for measuring ranges ≤ 16 bar (≤1% BFSL)					
Non-Linearity ²⁾	≤ 0.4% of F.S. BFSL					
Stability (annual)	≤ ± 0.3% of F.S. (in rated conditions)					
Material case wetted parts	fibre reinforced plastic (PBT) stainless steel 1.4435 and 1.4542					
Pressure connection	G 1/4 according to DIN 3852-E G 1/4 according to EN 837 M14x1.5 according to DIN 3852-E 7/16-20 UNF-2A 7/16-20 UNF-2A female with schrader 1/4 NPT other on request					
Electrical connection	connector Metri Pack series 150 round connector M12x1 (4-pin) cable outlet with 1.5m cable AMP Superseal connector 1.5 (3-pin) other on request					
Power supply / load 4...20 1...5V 0...10V 0.5 ... 4.5V ratio.	10...36VDC 8...36VDC 14...36VDC 5 ± 0.5VDC	$R_A [\Omega] \leq (U_B [V] - 10V) / 0.02A$ $R_A > 2.5k\Omega$ $R_A > 2.5k\Omega$ $R_A > 4.5k\Omega$				
Response time	≤ 2ms within 10% to 90% of F.S.					
Protection type Packard Metri Pack 150 Round connector M12x1 Cable outlet AMP Superseal connector	according to EN 60529 IP67 IP67 IP67 IP67					
EMC interference resistance	according to EN 61 326 according to EN 61 326					
Electrical protection type	reverse polarity, overload and short-circuit protection except ratiometric output signals					
Temperature influence median TC zero point median TC measuring range	≤ ± 0.3% / 10K ³⁾ ≤ ± 0.2% / 10K					
Temperature ranges compensated range storage media ambient	0...80°C -40...120°C ⁴⁾ -40...125°C -40...100°C ⁴⁾					
Weight	approx. 70g					

¹⁾ Including non-linearity, hysteresis, non-repeatability, zero point and full scale error (corresponds to error of measurement per IEC 61298-2).

²⁾ according to IEC 61298-2

³⁾ For special pressure ranges increased TC of zero

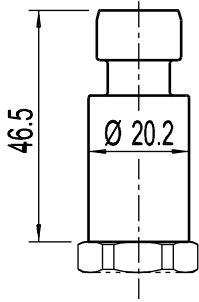
⁴⁾ For cable version temperature range from - 40°C...90°C

of F.S. = of full scale value
BFSL = Best fitt straight line

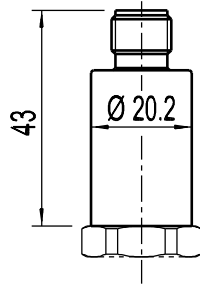
Dimensions

Case

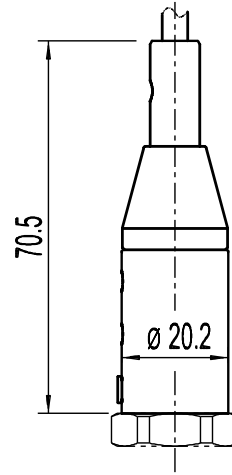
Connector Metri Pack 150



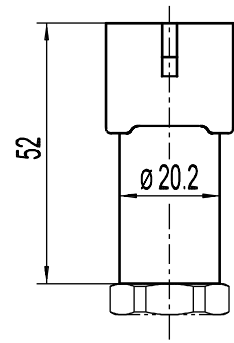
Round connector M12x1



Cable outlet

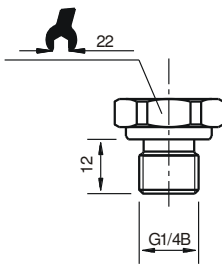


AMP Superseal 1,5

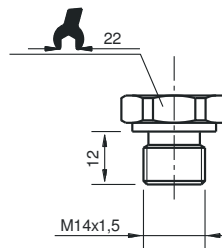


Pressure connection

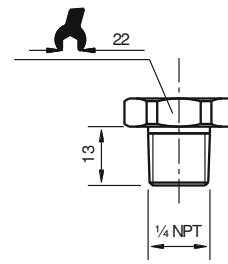
G 1/4B acc. to DIN 3852-E



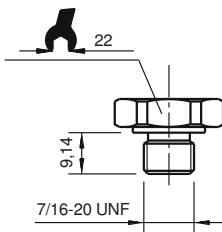
M14x1,5



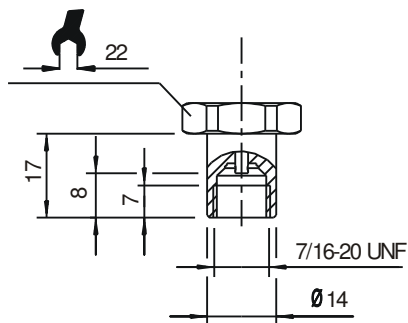
1/4 NPT



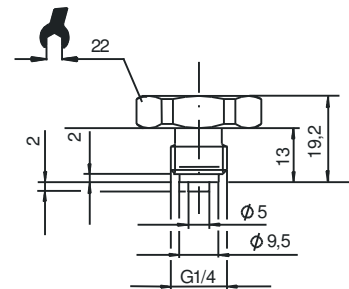
7/16-20 UNF-2A



7/16-20 UNF-2A Schrader internal thread



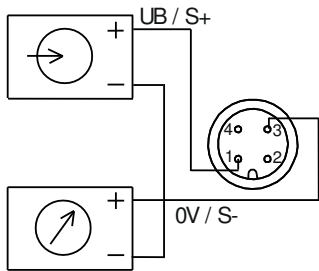
G 1/4B acc. to DIN 16288



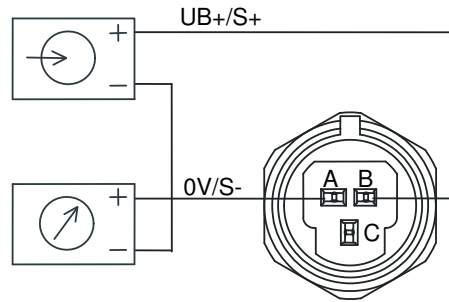
Electrical connection

Two-wire system

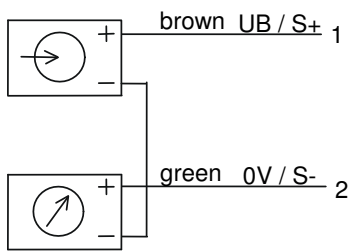
Round connector M12x1:



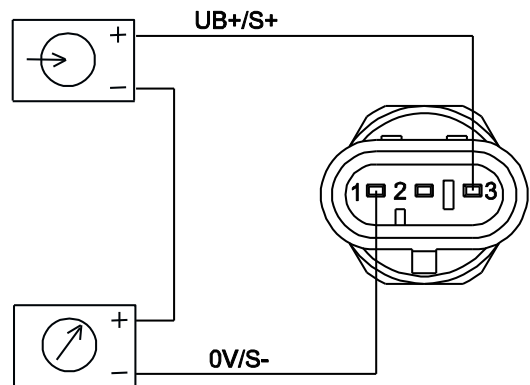
Connector Metri Pack 150:



Cable outlet:

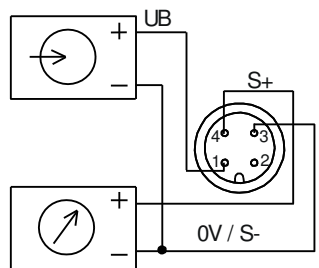


AMP Superseal:

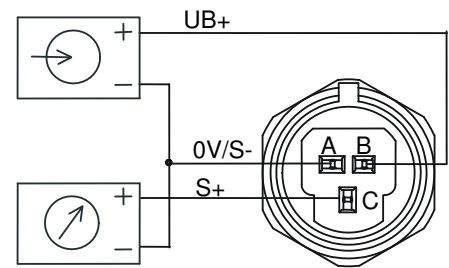


Three-wire system

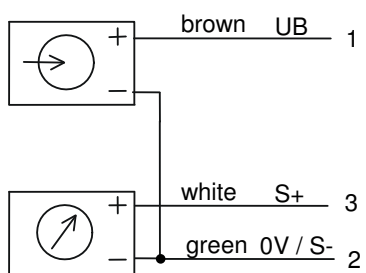
Round connector M12x1:



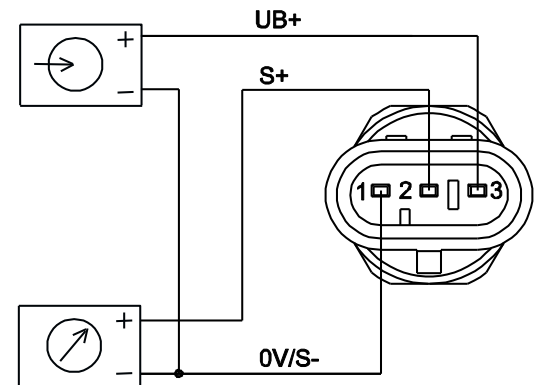
Connector for Metri Pack 150:



Cable outlet:



AMP Superseal:



Subject to technical alterations