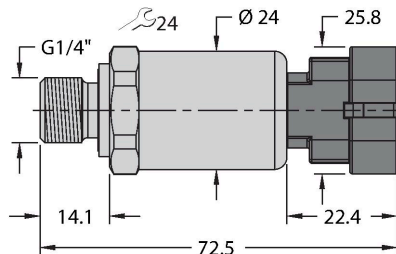


PT400R-2104-I2-AMPS1.5

Pressure Transmitter – With Current Output (2-Wire)



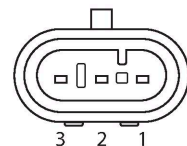
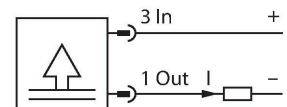
Features

- For mobile hydraulic applications
- Fully welded metal measuring cell
- Sealless
- With pressure tip orifice
- Compact and robust design
- Excellent EMC properties
- Excellent accuracy and long-term stability
- Kfz-Norm ISO 16750
- Pressure range 0...400 bar rel.
- 7.5...33 VDC
- Analog output 4...20 mA
- Process connection G1/4" male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring
- Connector device, AMP Superseal 1.5

Technical data

Type	PT400R-2104-I2-AMPS1.5
ID	100024783
Pressure range	
Pressure type	Relative pressure
Pressure range	0...400 bar
	0...5801.51 psi
	0...40 MPa
Admissible overpressure	≤ 1200 bar
Burst pressure	≥ 2400 bar
Response time	< 2 ms, typ. 1 ms
Long-term stability	0.3 % FS, acc. to IEC EN 61298-2
Power supply	
Operating voltage	7.5...33 VDC
Current consumption	≤ 23 mA
Short-circuit/reverse polarity protection	yes / yes
Protection type and class	IP67 / III
Insulation voltage	500 VDC
Outputs	
Output 1	Analog output
Output function	Analog output current
Analog output	
Current output	4...20 mA
Load	≤ (Supply voltage - 7.5) / 20 kΩ
Accuracy LHR	±0.5 % FS (under EMC interference max. ±1.5 % FS)
Temperature behaviour	
Medium temperature	-40...+125 °C

Wiring diagram



Functional principle

The pressure sensors in the PT...-2100 product series are designed specifically for demanding mobile hydraulic applications. They operate with a fully welded metal measuring cell in different pressure ranges of up to 0...600 bar in 2- or 3-wire technology. Depending on the sensor variant, the processed signal is available as an analog output (4...20 mA, 0...10 V, 0...5 V, ratiometric). A wide range of process connections and electrical connections offer a high degree of flexibility in many different applications.

Technical data

Temperature coefficient	± 0.2 % of full scale/10 K
Environmental conditions	
Ambient temperature	-40...+100 °C
Storage temperature	-50...+100 °C
Vibration resistance	Test VI (12 g, sinusoidal 18 g random vibration)
Shock resistance	50 g, 11 ms, half sine curve, 1000x/axis acc. to ISO 16750-3
EMV	Interference Immunity/Interference Emission EN 61326-2-3 - Pressure transducer ISO 13766 - Earthmoving machinery DIN EN 13309 - Construction machinery DIN ISO 14982 - Forestry and agriculture CISPR11 Immunity Motor Vehicle Directive ISO 11452-2, HF (Field), 100 V/m (200... 2000 MHz) ISO 11452-4, HF (BCI), 100 mA (20... 400 MHz) ISO 10605, ESD, ±15 kV contact, ±15 kV air ISO 7637-2 3), pulses 1, 2a, 2b, 3a, 3b (test level 4) ISO 16750-2, load dump, 155 V (1 Ω, 300 ms) Motor vehicle directive ECE R10 Motor vehicle directive 2004/104/EC
Mechanical data	
Housing material	Stainless-steel/Plastic, 1.4404 (AISI 316L)/polyarylamide 50 % GF UL 94 V-0
Pressure connection material	Stainless steel 1.4404 (AISI 316L)
Pressure transducer material	Stainless steel 1.4404 (AISI 316L)
Process connection	G1/4" male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring
Wrench size pressure connection / coupling nut	24
Electrical connection	Connector, AMP Superseal 1.5
Max. tightening torque of housing nut	20 Nm
Reference conditions acc. to IEC 61298-1	
Temperature	15...+25 °C
Atmospheric pressure	860...1060 hPa abs.
Humidity	45 % rel.
Auxiliary power	24 VDC
Tests/approvals	
Approvals	cULus
UL registration number	E302799
MTTF	1189 years acc. to SN 29500 (Ed. 99) 40 °C

Technical data

Included in delivery	Profile seal FKM special (1 pc)
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Accessories

Dimension drawing	Type	ID	
	TSS-3S-A-2/TXL	6936796	Valve connector connection cable, Superseal female connector, straight, 3-pin, cable length: 2 m, jacket material: TPE-U (PUR), black, housing: Deutsch DT06/black

