

PT1000PSIG-2014-U1-H1143

– With Voltage Output (3-Wire)



Features

- Pressure range 0...1000 psi rel.
- 12...33 VDC
- Analog output 0...10 V

Technical data

Type	PT1000PSIG-2014-U1-H1143
ID	6837222
Pressure type	Relative pressure
Pressure range	0...68.95 bar
	0...1000 psi
	0...6.89 MPa
Admissible overpressure	≤ 180 bar
Burst pressure	≥ 360 bar
Response time	< 2 ms, typ. 1 ms
Long-term stability	0.25 % FS, according to IEC EN 60770-1
Power supply	
Operating voltage U_B	12...33 VDC
Current consumption	≤ 7 mA
Short-circuit/reverse polarity protection	yes / yes
Insulation voltage	750 VDC
Outputs	
Output 1	Analog output
Output function	Analog output voltage
Analog output	
Voltage output	0...10 V
Load	≤ 100 nF/> 10 kΩ
Resolution	<± 0.1 % FS
Accuracy LHR	±0.3 % FS (typical; max. ±0.5 % FS)
Temperature behaviour	
Medium temperature	-40...+135 °C
Temperature coefficient	± 0.2 % of full scale/10 K

Technical data

Environmental conditions	
Ambient temperature	-30...+85 °C
Storage temperature	-50...+100 °C
Material pressure transducer	Stainless steel 1.4016 (AISI 430)
Reference conditions acc. to IEC 61298-1	
Temperature	15...+25 °C
Atmospheric pressure	860...1060 hPa abs.
Humidity	45...75 % rel.
Auxiliary power	24 VDC
Tests/approvals	
Approvals	cULus
UL registration number	E302799
MTTF	1238 years acc. to SN 29500 (Ed. 99) 40 °C