



S10E :: S12E

- Miniature Pressure Transducer with Flush Diaphragm
- Pressure range 0...1 bar to 0...1500 bar gauge
- Supply voltage 5 V DC
- Output signal 2 mV/V

ALTHEN provides a full line of subminiature pressure transducers to accurately measure pressure ranges from 1 bar to 1.500 bar (15 psi to 20,000 psi). ALTHEN's subminiature pressure transducers have a high natural frequency and utilize a flush diaphragm.

Temperature compensation is accomplished by using temperature sensitive components located inside the transducers. These transducers have a small electrical zero balance circuit board which is in the lead wire (approximately 1" X .087" thick). This balance board does not have to be the same temperature as the transducers. All units have four (4) active bonded strain gages arranged in a Wheatstone bridge configuration.

Performance

- :: Pressure Range
- xxx=001 0...1 bar
- xxx=01.5 0...1,5 bar
- xxx=002 0...2 bar
- xxx=003 0...3 bar
- xxx=005 0...5 bar
- xxx=007 0...7 bar
- xxx=010 0...10 bar
- xxx=015 0...15 bar
- xxx=020 0...20 bar
- xxx=030 0...30 bar
- xxx=050 0...50 bar
- xxx=070 0...70 bar
- xxx=100 0...100 bar
- xxx=150 0...150 bar
- xxx=200 0...200 bar
- xxx=300 0...300 bar
- xxx=500 0...500 bar
- xxx=700 0...700 bar
- xxx=1.5k 0...1500 bar
- :: overload-safe 50 % over capacity
- :: pressure reference gauge
- :: combined non-linearity / hysteresis +/- 1 % FSO
- :: repeatability +/- 0,1 % FSO
- :: output signal 2 mV/V
- :: resolution infinite

Environmental

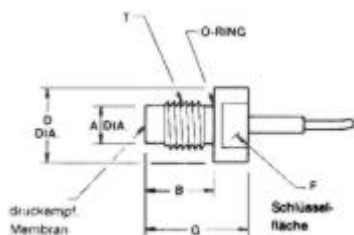
- :: temperature range
- operating -54...+150°C (-65°...+300°F)
- compensated +15...+70°C (60°...160°F) [others on request]
- :: thermal effect zero +/- 0,018 % FSO / K (0,01 % FSO / °F)
- :: thermal sensitivity +/- 0,036 % Rdg. / K (0,02 % Rdg. / °F)

Electrical

- :: strain gage type bonded foil
- :: excitation (calibration) 5 V DC
- :: bridge resistance 350 Ohm
- :: electrical connection 4 twisted leads (app. 1,5 m - 5 ft.)

Mechanical

- :: media Gas, Liquid
- :: wetted parts material 17-4 PH stainless steel
- :: case material 17-4 PH stainless steel



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