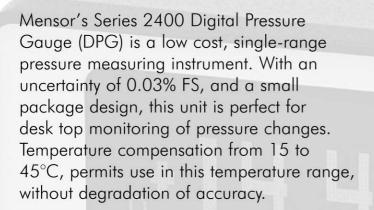


Digital Pressure Gauge Series 2400





The unique design of the Series 2400 has modest features and simple menu options. Combined with lower uncertainty levels, cost is reduced for applications where higher levels of uncertainty are not required and cost is a concern.

For protection of lower sensor ranges, internal relief valves are standard on ranges 100 psi and below.





Features

Ranges to 6000 psi Calibrated with NIST

Traceable Primary
Standards

Dynamic compensation from 15 to 45°C

RS-232 or RS485 Communications

17 Selectable Pressure Units and 1 User Defined Unit

Calibration Password Protected

Display of Max. and Min. Readings

Null Capability

Unique and simple user interface

Absolute, Gauge, Bi-directional or Vacuum CE Compliant

Options

Relief Valves for pressures > 100 psi

Digital Pressure Gauge

Specific Data Series 2400

General Specifications

Total Uncertainty 0.03% FS over compensated tempera-

ture range, 15 to 45°C for 180 days

Pressure Range

Psia: 7.5 to 6000 Psia: 0.36 to 6000

Pressure Range (Bi-directional, Vacuum)

Psig: -0.36 to 0.36 min.

-Atm to 6000 max.

Resolution 5 digits

Over Pressure

Limit 2X to 500 psi, 1.5X>500 psi

Storage -20 to 70°C

Warm-up < 1 minute

Reading Rate __4.6/seconds

Response Time < 252 mS

Orientation Negligible > 30 psi zero offset

resetable w/zero cal or null function

Communications RS-232 or RS-485

@ 9600 baud, N,8,1

Case Size 2.52" H x 4.174" W x 4.7" D

Weight < 1.5 lbs

Media

Pressure Port: Ranges <3 psi: clean dry non-corro-

sive gases. Ranges ≥ 3 psi: media compatible with aluminum, 316 SS, BunaN, Viton, silicone grease and RTV

(Not designed for oxygen service)

Reference Port: Clean, dry non-corrosive gases

Power Input 12 VDC, .125 Amps

Pressure Interfaces 7/16 - 20 SAE, Ref: 10 - 24, 1/8 and

1/4" FNPT Adapters included

Warranty One year

Options Relief valves for ranges

> 100 psi, mounted externally

Units PSI, inHg@0°C, inHg@60°F,

inH₂O@4°C, inH₂O@20°C, mbar, bar, mmHg@0°C, cmHg@0°C, Pa, hPa, kPa, MPa, kg/cm², cmH₂O@4°C,

cmH₂O@20°C, MSW@0°C

Display Monochrome 128x64 LCD, with white

LED back light

CE Compliant to EN50081, EN50082,

and

EN61010-1

Total Uncertainty is the combined uncertainties of all components of a measurement at the approximate 95% confidence level (K=2). Total uncertainty includes the uncertainties of the following: calibration standard, repeatability, pressure hysteresis, creep, linearity, and temperature effects over the compensated temperature range.

The calibration program at Mensor is accredited, by A2LA, as complying with both the ISO/IEC 17025:1999 and the ANSI/NCSL Z540-1-1994 standards. All Mensor primary standards are traceable to NIST.

Wellsof primary standards are fraceable to 14151.

Mensor Corporation is registered to BS EN ISO9001:2000.

Since product innovation is a continuous process at Mensor, we reserve the right to change specifications without notice.