

BetaGauge PIR Reference Class Digital Test Gauge

Features:

- The most accurate digital test gauge available with accuracy of $\pm 0.04\%$ of reading $\pm 0.01\%$ F. S.
- Temperature compensated accuracy over 0 to 50 °C
- Standard available pressure ranges — 30 PSI Compound (C/V), 30 psi, 100 psi, 500 psi, 1000 psi, 3000 psi, 5,000 psi, 10,000 psi
- Displays in 20 standard or 1 custom engineering unit
- Displays ambient temperature in °C or °F
- Large, back-lit, 5-1/2 digit display with 0.65" high digits and 20 segment bar graph
- Rugged Zinc Aluminum Alloy High Pressure Cast Housing
- MIN/MAX recall
- Adjustable TARE zeros large system offsets
- User-configurable sample rate maximizes measurement performance and battery life
- User-configurable damping smooths readings from pulsating/plant air sources
- Auto Shut-off for extended battery life
- Low battery indicator
- CSA intrinsically safe, Class 1, Div. 2 Groups A, B, C & D; ATEX approved; CE approved
- Available with optional 24 V external power input
- Rubber boot standard on all stand-alone bottom mount gauges

As with the original high accuracy BetaGauge P.I. PRO gauges, the BetaGauge PIR PRO takes the concept of a simple analog Test Gauge and combines it with the accuracy of digital technology. The new Reference Class gauges provide exceptional performance with 0.04% of reading accuracy, especially when operated below 50% of their range.



The Reference Class BetaGauge PIR PRO digital test gauges are available in six ranges — 30 psi Compound, 30 psig, 100 psig, 500 psig, 1,000 psig, 3,000 psig, 5,000 psig, and 10,000 psig. Setup of the BetaGauge PIR PRO is fast and straightforward, through a menu-driven display, with minimal text and intuitive functions, that is simple enough to allow the gauge to be used anywhere in the world without the need for multilingual displays. Pressure readings are displayed in any one of 18 standard engineering units, or in user-defined custom units, eliminating tedious conversion calculations. Readings are displayed on a 5-1/2 digit, 0.65" high digital display and companion percent-of-range bar graph. Accuracy is temperature-compensated over a 0 to +50 °C range. The internal temperature sensor measurement can be displayed in degrees Celsius or Fahrenheit.

Specifications (0 °C to +50 °C, unless otherwise noted)

Input Ranges

30 PSI Compound (C/V), 30 psi, 100 psi, 500 psi,
1000 psi, 3000 psi, 5000 psi, 10,000 psi

Accuracy

±0.04% of reading, ±0.01% FS

Vacuum accuracy of the compound range is 0.1% of the
30 psi full scale. Vacuum measurement not calibrated
for other ranges.

Temperature Compensation

0 °C to +50 °C (32 °F to +122 °F) to rated accuracy

Standard Engineering Units

PSI, Bar, Kg/cm², inH₂O (4 °C, 20 °C or 60 °F),
ft H₂O (4 °C, 20 °C or 60 °F), mmH₂O, cmH₂O (4 °C and
20 °C), mH₂O (4 °C and 20 °C), Kpa, mBAR, inHg,
mmHg, TORR

Media Compatibility

liquids and gases compatible with 316 stainless
steel; 30 C/V range non-corrosive gases and liquids

Environmental

Operating Temperature

-10 °C to +55 °C

Storage

-20 °C to +70 °C (-4 °F to +158 °F)

Mechanical

Dimensions

4.375" x 5.0" x 1.50"

Input Port

1/4" male NPT

Display

5 Digits, 0.65" (16.53 mm) height

Bar Graph – 0 to 100% in 20 segments

Power

Battery

three (3), size AA alkaline batteries

Battery Life

1,500 hours without backlight;

2,000 hours at slow sample rate;

battery life can be displayed on bar graph to
indicate the amount of time left

Low Battery Indicator

displayed icon near the end of battery life

Includes: manual, batteries

