BetaGauge PIR-PRO Reference Class Digital Test Gauge

When accuracy really counts, the BetaGauge PIR-PRO Reference Class digital test gauge is the one to count on. With best in the business accuracy of ±0.04% of reading ±0.01% of full scale, nothing beats it for the money.

It's the same rugged, easy to use package as the standard BetaGauge PI-PRO with fast and intuitive keypad controls and a big bright display.

Available in 8 ranges from 30 psi full scale to 10,000 psi full scale, the BetaGauge PIR-PRO can display readings in the user's choice of any of 18 standard engineering units plus 1 custom user-defined unit.

The 5-digit, 0.65" high LCD display and companion percent-of-range bar graph provide an easy to read display, even from a distance. The sample rate can be user adjusted to match the measurement required. A power saving mode maximizes battery life to 2,000 hours. Other features include MIN/MAX function, Auto Power Off and backlight control.

Using optional BetaLOG-PI software, a PIR-PRO becomes a high performance pressure data logger capable of recording over 9500 data points over periods ranging from seconds to days long depending upon configuration. Pressure data is uploaded to the user's PC in .CSV or Excel formats.

A protective rubber boot is standard to help protect the BetaGauge PIR- PRO from damage when dropped. It's also available in a self-contained calibration kit, including a hand pressure pump, and associated fittings.

General Features

- Temperature compensated accuracy over 0 to 50 °C
- 8 standard pressure ranges available
- Displays in 23 standard or 1 custom engineering unit
- Displays ambient temperature in °C or °F
- Large, back-lit, 5 digit display with 0.65" high digits and 20 segment bar graph
- Adjustable TARE zeros large system offsets
- User-configurable sample rate maximizes measurement performance and battery life
- User-configurable damping smooths readings
- 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

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

Accuracy
±0.04% of rdg ± 0.01% of FS

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), cmH₂O (4 °C and 20 °C),
mH₂O (4 °C and 20 °C), Kpa, mBAR, inHg, mmHg, TORR

Standard Engineering Units: $PSI, Bar, Kg/cm^2, inH_2O$ (4 °C, 20 °C or 60 °F), $ft\ H_2O$ (4 °C, 20 °C or 60 °F), cmH_2O (4 °C and 20 °C), mH_2O (4 °C and 20 °C), Kpa, mBAR, inHg, mmHg, TORR

Media Compatibility
liquids and gases compatible with 316 stainless steel;
except for ranges noted as non-isolated

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

BetaGauge PIR-PRO Reference Class Ordering Information

Range	Sensor Type	Standard Gauge	Rear Mount Style	24 VDC Powered	Rear Mount + 24 VDC Powered	Kit
-15…30 psi/ -1…2 bar	Non-isolated	1919597	1919609	1919603	1919615	1919852*
0…30 psi/ 2 bar	Isolated	1919598	1919610	1919604	1919616	Inquire*
-12…100psi/ -0.8…7 bar	Isolated	1919599	1919611	1919605	1919617	1919853*
-12…500 psi/ -0.8…35 bar	Isolated	1919600	1919612	1919606	1919618	1919851*
0…1000 psi/ 0…70 bar	Isolated	1919601	1919613	1919607	1919619	Inquire**
0…3000 psi/ 0…200 bar	Isolated	1919602	1919614	1919608	1919620	1919690**
0…5000 psi/ 0…350 bar	Isolated	1919692	1919696	1919694	1919698	1919805**
0…10000 psi/ 0…700 bar	Isolated	1919693	1919697	1919695	1919699	1919803**

NA=Not Available
All gauges include NIST traceable calibration certificate, batteries and user guide.
*Includes MECP500 pneumatic test pump with gauge mounted, test hose (3'/1m), 1/8"
NPT connectors & hard sided carrying case.
**Includes MECP10K hydraulic test pump with gauge mounted, high pressure test hose,
1/4" NPT connectors & hard sided carrying case.