



# BetaGauge II

## Field-Portable, Precision Calibration, Hot-Swappable Range Modules, AND Documenting

### Features:

- Available pressure ranges - any two companion modules
- DC electrical measurements; 0.01% accuracy
- Pressure measurements;  $\pm 0.025\%$  FS
- 128 by 128 pixel, 63 by 63 mm LCD display with on-demand backlighting
- Pressure displayed in 13 standard engineering units
- MIN/MAX recall
- % Error
- Field Calibrator Interface Standard (FCINTF) compatible
- ESD protection on all pins; EMI shielding
- Intrinsically safe; Class 1, Groups A, B, C, and D
- Intrinsically safe; Class 1, Division 2, Groups A, B, C, and D
- CE approved; EC92 compliant

### Description:

The BetaGauge II is a two-channel pressure calibrator, with interchangeable modules for measuring a variety of pressure ranges and DC electrical signals.

The BetaGauge II becomes a documenting calibrator when used with our versatile, menu-driven, PC-based ProCAL Software. Used together, they can create a centralized database, with a history for every pressure instrument and pressure I/O loop in your plant, with minimal guesswork and data entry. The BetaGauge II's RS232 port also permits use with key software programs from manufacturers like Cornerstone, Honeywell Loveland, Emerson AMS, and others.

The BetaGauge II uses two independent, hot-swappable, field changeable pressure modules, available in a wide variety of pressure ranges to redefine calibrator versatility. Changing ranges is as easy as plugging in new input modules, which can be done even while the unit is powered up. The



BetaGauge II automatically recognizes the signals and assigns them to the proper channel. This plug-in design simplifies maintenance, too. The base unit needs no recalibration; only the input modules do. That means you never have to be out of service — you send only the out-of-calibration modules back to the shop, while continuing to use the BetaGauge II in the field. For optimum mechanical strength, external pressure connection is made by a 1/8" FNPT 316SS connector welded to a stainless steel metal plate.

The BetaGauge II is supplied with a standard voltage/current input module, an external battery pack (NiCd, rechargeable) and trickle charger, test leads, manual, carrying case, and 9-pin D shell serial cable.

AVAILABLE MODULES		
PARAMETER/ RANGE	FULL SCALE ACCURACY	OVER PRESSURE
<b>Gauge (PSIG)</b>		
0 to 0.3 (0 to .02 mBar)	±0.1 %	400 %
0 to 1 (0 to 7 mBar)	±0.05 %	400 %
0 to 5 (0 to 350 mBar)	±0.025 %, ±0.003 psi	400 %
0 to 7.2 (0 to 500 mBar)	±0.035 %, ±0.0025 psi	300 %
0 to 10 (0 to 700 mBar)	±0.025 %, ±0.0025 psi	300 %
0 to 30 (0 to 2 Bar)	±0.025 %	300 %
0 to 50 (0 to 3.5 Bar)	±0.03 %	300 %
0 to 100 (0 to 7 Bar)	±0.025 %	300 %
0 to 150 (0 to 10 Bar)	±0.035 %	200 %
0 to 300 (0 to 20 Bar)	±0.025 %	200 %
0 to 500 (0 to 35 Bar)	±0.025 %	200 %
0 to 1000 (0 to 70 Bar)	±0.025 %	200 %
0 to 1500 (0 to 100 Bar)	±0.035 %	200 %
0 to 3000 (0 to 200 Bar)	±0.1 %	200 %
0 to 5000 (0 to 340 Bar)	±0.1 %	200 %
0 to 10000 (0 to 700 Bar)	±0.1 %	150 %
<b>Vacuum (PSIG)</b>		
0 to -5 (0 to -350 mBar)	±0.025%, ±0.003 psi	400 %
0 to -15 (0 to -1 mBar)	±0.025%, ±0.0025 psi	300 %
<b>Absolute (PSIA)</b>		
0 to 15 (0 to 1 Bar)	±0.025%, ±0.0025 psi	300 %
0 to 30 (0 to 2 Bar)	±0.025%	300 %
0 to 50 (0 to 3.5 Bar)	±0.03%	300 %
0 to 100 (0 to 7 Bar)	±0.025%	300 %
0 to 300 (0 to 20 Bar)	±0.025%	200 %
<b>Compound (PSIG)</b>		
-15 to 15 (-1 to 1 Bar)	±0.025%, ±0.0025 psi	300 %
-15 to 30 (-1 to 2 Bar)	±0.025%, ±0.0025 psi	300 %
<b>Differential (PSID)</b>		
0 to 5 (0 to 350 mBar)	±0.025%, ±0.003 psi	400 %
0 to 30 (0 to 2 Bar)	±0.025%	300 %
0 to 50 (0 to 3.5 Bar)	±0.03%	300 %
<b>Electrical (For use with BetaGauge II only)</b>		
Voltage: > 1M ohms input impedance		
Autoranging:		
0 to ±249.99 mV dc		
0 to ±2.4999 V dc		
0 to ±24.999 V dc		
Current: 5 ohms input impedance		
Autoranging:		
0 to ±24.999 mA dc		
0 to ±149.99 mA dc		

