



BetaGauge Pressure Modules

High Accuracy Digital Modules

Features:

- 29 standard ranges
- Gauge, vacuum, absolute, compound, and differential measurements
- Accuracy specified over 15 °C to 35 °C range
- Isolated and non-isolated measurements, range dependant

Description:

Martel Electronics offers 29 standard pressure modules, covering gauge, vacuum, absolute, compound, and differential measurements. All modules are directly compatible with the BetaGauge II, as is a DC measurement module.

With the Model BPPA-100 BETA Port Pressure Adapter, all modules (with the exception of the DC measurement model) are fully compatible with the Martel MC-1200 and MC-1000 Multi-Function Calibrators, the BetaGauge 321, 311 and 301 Pressure Calibrators, the DMC-1400 Documenting Multi-Function Calibrator, and the Martel Electronics M2001 and 3001 Laboratory/Bench Standards.

Pressure ranges may be displayed in any of 13 user-selectable units. Water density correction factors of 4 °C, 20 °C, or 60 °F can be selected for either water column unit. The choice of pressure unit may be restricted by limitations on resolution of the instrument display of the particular calibrator the module is used with.



For optimum mechanical strength, external pressure connection is made by a 1/8" FNPT 316SS connector welded to a stainless steel metal plate.



Model BPPA-100 BETA Port Pressure Adapter

AVAILABLE MODULES		
PARAMETER/ RANGE	FULL SCALE ACCURACY	OVER PRESSURE
Gauge (PSIG)		
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 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 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 %
Vacuum (PSIG)		
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 %
Absolute (PSIA)		
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 %
Compound (PSIG)		
-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 %
Differential (PSID)		
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 %
Electrical (For use with BetaGauge II only)		
Voltage: > 1M ohms input impedance	Autoranging: 0 to ±249.99 mVdc 0 to ±2.4999 Vdc 0 to ±24.999 Vdc	
Current: 5 ohms input impedance	Autoranging: 0 to ±24.999 mAdc 0 to ±149.99 mAdc	

*Isolated