

MultiCal Pressure Modules

**Got a MultiMeter?**



**Measure Pressure with  
Your meter and a MultiCal!**

**PRESSURE  
is Our  
BUSINESS™**

**CRYSTAL**  
engineering corporation

# MultiCal Pressure Modules

You **have** a multimeter. You may have a current clamp. You might even have an adapter that lets you measure temperature with your DMM. But can you measure **pressure** with your meter?

Yes, you can. With MultiCal pressure modules. Chosen by NASA for the Space Shuttle and International Space Station, these modules convert your meter into an accurate pressure measuring system.

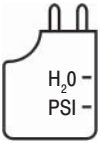
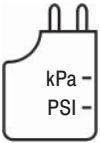
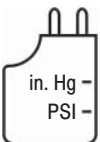
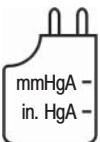

If your meter can measure DC millivolts, you can measure pressure. Each modules' output is 1mV per unit. For example: 100 inches of water will read 100 millivolts on your meter. These modules are available in 4 different versions for all of the most common ranges, from inches of water to 500 PSI.

They're not expensive - less than most modules for dedicated pressure calibrators. MultiCals are specified in percent of reading, just like your meter, so a single module can replace a number of test gauges. And, they're accurate - up to 0.05% of reading. Better than most calibrator modules. Really.

MultiCals are rugged too. All of the modules use stainless steel diaphragm sensors, so you can use them to measure liquid as well as gas pressure. The optimized circuit design is both efficient and reliable - they'll run on a single 9V battery for 400 hours or more.

So go ahead. Add a MultiCal to **your** meter. You'll be pleased you did.

## Specifications and Ordering Information

Model	Ranges	Accuracy	Mechanical Specifications
	0 to 830" H <sub>2</sub> O: ±(0.05% of reading + 0.1" H <sub>2</sub> O) 0 to 30 PSI: ±(0.05% of reading + 0.01 PSI) 30 to 50 PSI: ±(0.25% of reading) 0 to -14.7 PSI: ±(0.5% of reading + 0.02 PSI) Max Pressure: 100 PSI	<b>ORDER MODEL H20/PSI</b>	<p><b>Power</b> Battery: One standard 9V carbon or alkaline battery. Battery Life: 400+ hours (alkaline battery).</p> <p><b>Enclosure</b> Weight: 85g (3oz.) Dimensions: 64 mm x 117 mm (2 1/2" x 4 5/8"), 4 mm plugs on 19mm (3/4") centers.</p> <p><b>Pressure Connections</b> 2 x 1/8" NPT (Female)</p> <p><b>Media Compatibility</b> Liquids and gases compatible with PTFE (Polytetrafluoroethylene) penetrated, hard anodized, aluminum (transducer housing), 316 stainless steel, buna-n (O-ring).</p> <p><b>Durable &amp; Functional</b> Every MultiCal™ Series Module comes with a protective holster case, cord set, 9V battery (installed), and operating instructions.</p> <p>Standard factory calibration is 1" H<sub>2</sub>O @ 4°C = 0.036126 PSI. Specify at time of order if your required conversion is different from standard (e.g., for water @ 68°F, 1" H<sub>2</sub>O = 0.036063 PSI).</p>
	0 to 200 kPa: ±(0.05% of reading + 0.025 kPa) 0 to 30 PSI: ±(0.05% of reading + 0.01 PSI) 30 to 50 PSI: ±(0.25% of reading) 0 to -14.7 PSI: ±(0.5% of reading + 0.02 PSI) Max Pressure: 100 PSI	<b>DISCONTINUED kPa/PSI</b>	
	0 to 30" Hg: ±(0.1% of reading + 0.01" Hg) 0 to -30" Hg: ±(0.1% of reading + 0.01" Hg) 0 to 500 PSI: ±(0.1% of reading + 0.02 PSI) 0 to -14.7 PSI: ±(0.25% of reading) Max Pressure: 1000 PSI	<b>ORDER MODEL Hg/PSI</b>	
	0 to 760mmHgA: ±(0.08% of reading + 0.2mmHg) 0 to 30" HgA: ±(0.08% of reading + 0.01" Hg) 30 to 60" HgA: ±(0.25% of reading) Max Pressure: 100 PSIA	<b>ORDER MODEL "HgA/mmHgA</b>	
	0 to 760 mmHgA: ±(0.08% of reading + 0.2mmHg) 0 to 30 PSIA: ±(0.08% of reading + 0.01 PSI) Max Pressure: 100 PSIA	<b>ORDER MODEL mmHgA/PSIA</b>	



Housings for MultiCal are sold under license from Fluke Corporation. Specifications subject to change without notice. © 2000 Crystal Engineering Corporation. Printed in the USA 12/02

**PRESSURE is Our BUSINESS™**