



A full multi-function calibrator at a very competitive price with excellent accuracy best describes the MC-1000. The MC-1000 combines the accuracy and functions of our next generation PTC-8000 temperature calibrator with V/mA and frequency functions added. The performance level is twice that of similarly priced products and will calibrate virtually any process device.

The MC-1000 also combines several DMM functions like voltage measurement to 250 V AC or DC and a continuity test function. This combination of a high accuracy calibrator along with common DMM functions makes the MC-1000 the only instrument you may ever need to maintain and calibrate your instrumentation.

## Fluke 700 Series Pressure Modules Available From Martel

Fluke offers 29 Pressure Modules that are compatible with the Martel MC-1000 Multifunction Calibrator. All that is needed is a Martel connector/adaptor (part #700MA). Gage, differential, dual (compound), absolute and vacuum modules are available to cover virtually any pressure application. Rugged cases protect the modules from harsh conditions. Pressure readings update twice per second, and may be displayed in up to 11 different units.

## Features

- Excellent accuracy  $\pm 0.4^{\circ}\text{C}$  T/C  $\pm 0.3^{\circ}\text{C}$  RTD and 0.015% electrical
- Choose either read or source modes
- Operates with external pressure modules
- 10 T/C types; 8 RTD types plus YSI 400 series thermistor (medical applications)
- Full function 4 to 20 mA read, source, simulate and read/power modes with 0.015% reading accuracy
- Source 0 to 20 volts or read 0 to 20 volts with 0.015% of reading accuracy
- Measure 0 to 250 VDC or VAC
- Direct keyboard entry allows for quick output changes
- Store up to nine setpoints for each output function
- RTD function works with all pulsed XMTR's
- RS232 Interface

### Each unit includes:

Test leads, carrying case, 4 AA alkaline batteries, NIST Certificate, and instruction manual

## General Specifications

<b>Pressure Ranges:</b>	Various ranges in 29 different pressure modules – see Pressure Module Specifications
<b>T/C Ranges:</b>	J, K, T, E, R, S, N, B, L, U including – 10 to 70mV
<b>RTD Ranges:</b>	Pt 385 (100, 200, 500, 1000 ohms) Pt 392, JIS, Ni120, CU10, YSI400
<b>Ohms Ranges:</b>	0 to 400.00 and 400.0 to 4000.0
<b>mA Range:</b>	0 to 24.000 mA
<b>Voltage:</b>	(Low) Read 0-20.000 VDC Source 0-10.000 VDC (High) Read only 0-250 VDC or VAC
<b>Frequency:</b>	0-1000.0 CPM 0-1000.0 Hz 0-10.00 KHz
<b>Continuity:</b>	0 to 400.0 ohms, audible tone when under 10 ohms
<b>Accuracy:</b>	T/C Type J: $\pm .3^{\circ}\text{C} \pm 10 \mu\text{V}$ ( $\pm 0.4^{\circ}\text{C}$ total error) RTD PT100: $\pm .1^{\circ}\text{C} \pm .075 \Omega$ ( $\pm 0.3^{\circ}\text{C}$ total error) Ohms (400): $\pm 0.1 \Omega$ Ohms (4000): $\pm 1.0 \Omega$
<b>mA Compliance:</b>	Up to 1000 $\Omega$ load
<b>Voltage Drive Capability:</b>	1 mA
<b>RTD IEX-range:</b>	0.01 mA to 3 mA
<b>RTD Frequency Response:</b>	10 mS – works with all pulsed XMTR's
<b>Oper. Temp:</b>	-10°C to 50°C
<b>Storage Temp:</b>	-20°C to 70°C
<b>Loop Power:</b>	4 AA alkaline batteries, 25 hours typical operating time
<b>Size:</b>	7.5" x 4" x 1.5"