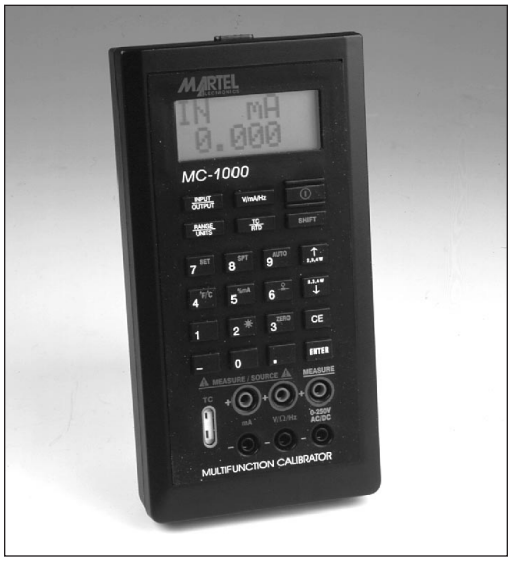
MC-1000
Multi-Function Calibrator



Looking for a reasonably priced multi-function calibrator with the accuracy you need to do the job right?

Low cost multi-function calibrators are great when you have to trouble-shoot a variety of instruments, but what happens when calibration accuracy is important or when compatibility with smart temperature transmitters is an issue? Until now, to get the functionality, accuracy and compatibility you require, you had to buy an expensive multi-function calibrator. While several manufacturers offer low cost multi-function calibrators that give you the functions–they all fall short on accuracy and in some cases smart transmitter compatibility.

The new Martel MC-1000 is the first low-cost multi-function calibrator to address all these issues.

The MC-1000 proves to be the best in its class. Take a look at the chart below to see how it stacks up to other calibrators.

Dare to Compare...

	Martel MC-1000	Altek 820	Transmation Checkmate 1000	Altek 830	Transmation 1188
Basic Electrical Functions	**mA, Volts (AC/DC) Frequency Continuity Test**	mA, Volts (AC/DC) Frequency Continuity Test	mA, Volts (AC/DC) Frequency Continuity Test	mA, Volts (AC/DC) Frequency Continuity Test	mA, Volts (AC/DC) Frequency Continuity Test
No. of Thermocouple Ranges	**10**	7	7	7	7
No. of RTD Ranges	**9**	6	6	6	6
Pressure Module Option	**Yes**[1]	No	No	Yes	Yes
mA Accuracy @20 mA	**±0.006 mA**	±0.020 mA	±0.020 mA	±0.020 mA	±0.020 mA
Typical T/C Accuracy (example: Type J)	**±0.6°C**	±1.8°C	±1.8°C	±1.8°C	±1.8°C
Typical RTD Accuracy (example: PT100(385)	**±0.3°C**	±1.0°C	±1.0°C	±1.0°C	±1.0°C
Operates with Smart (pulsed) RTD Transmitters	**Yes**	No	No	No	No
Simultaneous mA Read Capability	**Yes** (pressure only)	No	No	Yes[2]	Yes[2]
Temperature Drift	**±.005%/°C**	±0.01%/°C	±0.01%/°C	±0.01%/°C	±0.01%/°C
Number of User Defined Setpoints Per Range	**9**	3	3	3	3
Data Entry Method	**Numeric Keypad Ramp Control**	Knob	Decade Ramp Control	Knob	Decade Ramp Control
Remote Computer Control Option	**Yes (RS-232)**	No	No	No	No
Price*	**$1,295**	$1,230	$1,230	$1,695	$1,695

Note 1: MC-1000 works with the Fluke 700 Series Pressure Modules (modules available from Martel Electronics).

Note 2: The Altek 830 and Transmation 1188 can simultaneously source an output (V, T/C, RTD, etc.) while reading a 4 to 20 mA transmitter output; however the two functions are not electrically isolated from each other. This can cause calibration errors with non-isolated T/C and RTD transmitters or in some cases may not even work.

* Price as of 9/1/00

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