

MARTEL Calibrators

Tuff-Tool series

- High accuracy
- Water and dustproof housing
- 1.43" x 3.15" x 5.7"
- Powered by a 9V battery
- Complete with rubber boot, test leads, 9V battery, NIST conformity certificate and manual

Martel loop calibrator - Model T100

- Sources, powers and reads 2-wire transmitters
- Range of 0.00 to 24.00 mA
- Accuracy $\pm 0.025\%$ FS ± 1 digit
- Steps of 4mA (0, 4, 8, 12, 16, 20 and 24mA) and 0.01 mA scroll modes



Martel voltage calibrator - Model T110

- Sources and reads voltage loops
- Ranges of 0.0 to 100.0 mV, 0.00 to 10.00 V
- Accuracy $\pm 0.025\%$ FS ± 1 digit
- Steps of 10 mV or 1 V (depending on range) and 0.1mV or 0.01 V scroll modes

Martel temperature calibrator - Model T120 - thermocouple

- Sources and reads temperature
- Ranges type J -100 to 1000°C, type K -100 to 1200°C, type T -100 to 400°C and type E -100 to 950°C, and equivalent in °F
- Accuracy $\pm 1^\circ$ C over 0° and $\pm 2^\circ$ C under 0° (18 to 28°C)



Martel temperature calibrator - Model T130 - RTD

- Sources and reads temperature
- Ranges Pt385 -200 to 850°C, Pt392 -200 to 850°C, Ni120 -80 to 320°C, JIS 392 -200 to 850°C, and equivalent in °F
- Accuracy $\pm 1^\circ$ C (18 to 28°C)



Martel frequency calibrator - Model T150

- Ranges of 0-100.0 kHz, 0-1000.0 Hz and 0-1000.0 CPM
- Accuracy $\pm 0.01\%$ FS ± 1 digit
- Output signal 5V square wave, peak to peak
- Input signal 1V to 100V peak to peak
- Step of 10% FS and scroll of 0.1%FS



Code	Description	Price
T100	Loop power	\$ 775.00
T110	Voltage	\$ 851.00
T120	Thermocouple temperature	\$ 851.00
T130	RTD temperature	\$ 851.00
T150	Frequency	\$ 851.00

BETA Loop Calibrator

Model CalTool 20

- Very high accuracy $\pm 0.015\%$ rdg
- % of error function (automatic calculation)
- Sources, powers and measures two-wire transmitters
- Input/output 0.000 to 24.000 mA
- 5 preset outputs (4, 8, 12, 16 and 20mA)
- Input 0 to 28Vdc
- Complete with test leads, full rubber boot, 9V battery, NIST conformity certificate and manual



Code	Description	Price
910020-001	Loop calibrator	\$ 779

BETA Temperature Calibrator

Model CalTool 25

- Sources and reads 10 common thermocouple types J, K, T, E, R, S, B, L, U, C
- Resolution : Source $\pm 0.1^\circ$, Reads $\pm 0.01^\circ$
- Accuracy $\pm 0.3^\circ$ C type J (all errors combined)
- Sources and reads from -10 to 75.000 mV
- Complete with test leads, full rubber boot, 9V battery, NIST conformity certificate and manual



Code	Description	Price
910025-001	Thermocouple temperature calibrator	\$ 982

BETA Universal Temperature Calibrator

Model 800

- Sources and reads all types of thermocouples and RTD's
- Ranges T/C J, K, T, E, R, S, N, B, L, U
- Ranges RTD, Pt 385 (100, 200, 500, 1000 ohms) and Pt392, JIS, Ni 120, CU10, YSI 400
- Ranges ohms 0 to 400.00 and 400.0 to 4000.0
- Accuracy: type J : $\pm 0.3^\circ$ C $\pm 10 \mu$ V ($\pm 0.6^\circ$ C total); RTD Pt100: $\pm 0.1^\circ$ C ± 0.75 ohm ($\pm 0.3^\circ$ C total); 400 ohms: ± 0.1 ohm, 4000 ohms: ± 1.0 ohm
- NEMA 4 housing
- Standard mini-plug and banana jack connections
- Store up to nine setpoints for each output function
- RS232 Interface
- Complete with test leads, full rubber boot, 9V battery, NIST conformity certificate and manual



Code	Description	Price
910800-001	Universal temperature calibrator	\$ 1386.00
80029	T/C cable kits, J, K, T and E	\$ 155.75

BETA 850 Multifunction Calibrators

BETA 850

- Accuracy : $\pm 0.4^\circ$ C T/C, $\pm 0.3^\circ$ C RTD and 0.015% rdg (electrical)
- Read and Source (with 24V loop supply for 4-20mA)
- Compatible with BETA pressure modules and Fluke series 700 (29 models)
- T/C J, K, T, E, R, S, N, B, L, U
- RTD Pt385 (100, 200, 500 and 1000 ohms), Pt392, JIS, Ni120, CU10 and YSI400
- Current : 0 to 24.000 mA
- Voltage : 0 to 20.000 Vcc (measure), 0-10.000 Vdc (simulated) and 0-250 Vdc or Vac (measured only)
- Frequency : 0 to 1000.0 Hz, 0 to 10.00 KHz
- Continuity : 0 to 400.0 ohms
- Store up to nine setpoints for each output function
- RS232 interface
- Complete with test leads, case, 4 AA batteries, NIST conformity certificate and manual



Best price/quality ratio

BETA 950

- Large backlit display
- High accuracy: $\pm 0.2^\circ$ C T/C type J, $\pm 0.2^\circ$ C RTD (Pt100) and 0.015% rdg (electrical)
- Read and Source (with 24V loop supply for 4-20mA)
- Compatible with BETA pressure modules
- T/C J, K, T, E, R, S, B, C, XK, BP, L, U, N; -10,000 to +75,000 mV
- RTD Pt385 (100, 200, 500 and 1000 ohms), Pt385-10, Pt385-50, Pt100 (3926 and 3916), JIS, Ni120, CU10, CU50, CU100 and YSI400
- Direct entry of custom RTD coefficients (Ro, A, B, C)
- Current : 0 to 24,000 mA, isolated or non-isolated
- Voltage : measure 0 to 30,000Vdc (isolated) and 0 to 20,000 Vdc (non isolated), source: 0 to 20,000 Vdc
- Frequency : 1.0 to 1000.0 Hz, 1.0 to 10.00 kHz, 2.0 to 600.0 CPM (source and measure)
- Pulse : 1 to 30,000.0; 2 CPM to 10 kHz
- Continuity : source 5.0 to 4 000 ohms; measure : 0.00 to 4,000.0 ohms
- Store setpoints fo each output function
- RS232 interface
- Complete with test leads, full rubber boot, 4 AA batteries, NIST conformity certificate and manual



Code	Description	Price
910850-001	Complete multi-function calibrator	\$ 1804.00
910950-001	Complete multi-function calibrator	\$ 2640.00
910951-001	BETAPort pressure module adapter	\$ 305.00

(See modules on page 9)