

Made With the Technician in Mind

Features

- High Accuracy/Source and Read Capability
- Rugged, Dust Tight, Water Resistant Case
- Easy to Read Super-Twist LCD
- Intuitive Controls make operation Easy even for infrequent users
- Powered by a common 9 Volt battery

The Tuff-Tools line of calibrators is designed to give the technician laboratory grade accuracy in a family of rugged, easy to use instruments.

The Tuff-Tools family consists of 3 Process Signal calibrators (mA, Volts, Frequency), 2 Temperature calibrators (T/C, RTD) and a Pressure calibrator available in several ranges (200" H₂O, 30 PSI, 100 PSI).

Operation of these calibrators is made easy through the use of a sealed membrane keypad with simple controls. The outputs are set through the use of step and ramp keys which allows both large and small output changes to be made with ease.

Each Unit Includes:

Test leads, carrying case, 9V battery, NIST Certificate, and instruction manual



T110



T150



T100

Voltage - T110

Ranges:	0.0 to 100.0 mV 0.00 to 10.00 V
Operating Modes:	Read or Source
Accuracy¹:	± 0.025% FS ± 1 LSD
Operating Temp.:	0 to 50°C
Storage Temp.:	-20 to 60°C
Temperature Stability²:	.01% F.S./°C
Step Size:	10 mV or 1 V (10 per range)
Scroll Size:	.1 mV or .01 V
Load Capacity:	± 1 mA
Weight:	12 oz.
Size:	1.43" x 3.15" x 5.7"

Note 1: 18°C to 28°C

Note 2: 0 to 18°C and 28°C to 50°C

Frequency - T150

Ranges:	0-100.0 kHz 0-1000.0 Hz 0-1000.0 CPM
Accuracy¹:	± 0.01% F.S. ± 1 LSD
Max Load	
Driving:	5 mA (1 Kohm load min)
Operating Temp.:	0 to 50°C
Storage Temp.:	-20 to 60°C
Temperature Stability²:	.005% F.S./°C
Output Signal:	5 V p-p square wave
Input Signal:	1 V to 100 V p-p
Step Size:	10% of range
Scroll Size:	.1% of Range
Weight:	12 oz.
Size:	1.43" x 3.15" x 5.7"

Note 1: 18°C to 28°C

Note 2: 0 to 18°C and 28°C to 50°C

Milliamp - T100

Range:	0.00 to 24.00 mA 25.0% to 125.0%
Operating Modes:	Source, Simulate, Read, Read/Power
Accuracy¹:	± 0.025% FS ± 1 LSD
Operating Temp.:	0 to 50°C
Storage Temp.:	-20 to 60°C
Temperature Stability²:	.01% F.S./°C
Loop Power:	24V DC
Step Size:	4 mA (0, 4, 8, 12, 16, 20 and 24)
Scroll Size:	.01 mA
Load Capacity:	1000 Ohms Minimum
Weight:	12 oz.
Size:	1.43" x 3.15" x 5.7"

Note 1: 18°C to 28°C

Note 2: 0 to 18°C and 28°C to 50°C