TEXMATE Smart Measuring Smart Control

Process Calibrator + Simulator + Function Generator
TEX-CAL 934

NEW

The TEX-CAL 934 multi-function calibrator meets all of your process test and benchtop calibration needs.

- **SOURCE** calibration voltages and currents in a variety of ranges, time varying signals including a user programmable waveform, pulse waveforms, DTMF tones for sound applications, and Auto-Step/Auto-Ramp for mA, V and temperature.
- **SIMULATE** 4-20mA transmitter, 11 different thermocouples, electronic loads (max. 30V, 20mA), and almost any real world signal with the programmable arbitrary waveform generator (0.3 – 20K Hz).
- **MEASURE** current (mA), voltage (mV, V) and temperature (oC, oF, with programmable cold junction compensation), specific process loop features include selectable 250Ω HART resistor, measure simultaneously with 24V loop supply.
- **DOCUMENT** using supplied software, map 4-20mA to Engineering Units, includes data logging for source and measurement.

Shop

Other Features Include:

- Protective Cover with Stand
- Battery Powered (rechargeable)
- Dot Matrix LCD with Backlight
- Programming Software
- Carrying Case
- Universal AC adapter
- Standard Test and USB cables
- Software CD and Manual

General Specifications:	
AC Power Adaptor	AC 110V or AC 220V, 50/60Hz input. DC 15V / 0.5A output
Dimension	214.0 (L) x 98.7 (W) x 56.0 (H) mm 8.4" (L) x 3.9" (W) x 2.2" (H)
Weight	650g / 22.9oz (Batteries included)
Operation Environment	0 ° ~ 50° C, 85% RH
Storage Environment	-20 ° ~ 60° C, 75% RH

Available From:
Texmate Inc.
1934 Kellogg Ave.
Carlsbad, CA 92008 USA
1-760-598-9899

Electrical Specifications: 23± 5º C, 10 minutes after turning on the power

mA (source) Vopen > 24V

Range	Resolution	Reading Accuracy
0.005mA to 4mA	1µA	±0.03% ±5 digits
4mA to 20mA	1µA	±0.03% ±3 digits
20mA to 24mA	1µA	±0.03% ±5 digits

mA (measure)

Range	Resolution	Reading Accuracy
-4mA to -0.005mA	1µA	±0.03% ±10 digits
0.005mA to 4mA		±0.03% ±5 digits
4mA to 20mA		±0.03% ±3 digits
20mA to 24mA		±0.03% ±5 digits

Temperature, Thermocouples: K,J,E,T,R,S,N,L,U,B,C and mV

Source and measure, 0.1ºC and 0.1ºF resolution
Internal cold juntion compensation
Detailed temerature range and accuracy,
please refer to data sheet

V (source) Max. load 1mA, short circuit protection < 100mA

Range	Resolution	Reading Accuracy
0.005V to 10V	0.001V	±0.03% ±5 digits
10V to 15V		

V (measure)

Range	Resolution	Reading Accuracy
-3V to -0.005V	0.001V	±0.03% ±10 digits
0.005V to 10V		±0.03% ±5 digits
10V to 24V		±0.03% ±5 digits

Frequency
source, 10Vpp, 0V offset, square wave, duty cycle = 50%

Range (HZ)	Input Resolution	Accuracy
0.3 to 99.999	0.1Hz	0.002Hz
10.00 to 999.99		0.02Hz
1000.0 to 9999.9		0.2Hz
10000 to 20000	1Hz	2Hz

Voltage Peak to Peak for Sine Wave
Vpp, 0.3~20KHz, 50% duty cycle, sine wave, 0V offset

Range (V)	Resolution	Reading Accuracy
0.1V to 20V	0.001V	5% ± 0.3V

Voltage Peak to Peak for No-Sine Wave
Vpp, 0.3~20KHz, 0V offset

Range (V)	Resolution	Reading Accuracy
0.1V to 20V	0.001V	6% ± 0.4V

Voltage Peak to Peak
Vpp, 0.3~20KHz, 50% duty cycle, square wave, 0V offset

Range (V)	Resolution	Reading Accuracy
0.1V to 20V	0.001V	6% ± 0.4V

Voltage Offset Maximum Vpp < 20V

Range (V)	Resolution	Reading Accuracy
0.1V to 20V	0.001V	6% ± 0.4V

Duty Cycle Maximum Vpp < 20V

Range	Resolution	Vpp Raise Time	Vpp Fall Time
0 to 100%	1%	10µS max. 5µS typical	15µS max. 7.5µS typical

DTMF (Hz, %, Phase angle, Vpp and Offset)
Range, resolution and accuracy,
please refer to data sheet.

Pulse square wave, 10 Vpp, offset -5V~+5V

Range	Resolution	Vpp Raise Time	Vpp Fall Time
3.0µS to 9999.9µS	0.1µS	10µS max. 5µS typical	15µS max. 7.5µS typical
10.000mS to 99.999mS	0.001mS		
100.00mS to 999.99mS	0.01mS		