# CALOG - TC



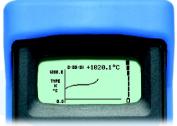


The CALOG - TC is a high precision, multi-functional, hand-held calibrator suitable for the process control industry. It's speciality is thermocouple based instruments. It measures and sources, thermocouple, millivolts and milliamps. It can measure DC Volts and continuity. The trend feature is ideal for graphing temperature profiles and PID controller optimization. It's small size, long battery life and high precision make the CALOG - TC ideal for industrial field or workshop calibration.

Measures and sources types: J, K, T, E, R, S, B and N Thermocouples. Configurable internal or manual cold-junction compensation, in either °C, °F, Kelvin or Rankine. Accuracy is better than 0.5°C, excluding cold junction errors and thermocouple errors. The *CALOG*- TC has a resolution of 0.1°C. Measures and sources -10 to 100mV with 0.01% accuracy and 1μV resolution.

It can simultaneously source a thermocouple and measure mA (isolated). The trend feature is useful for temperature graphs or controller optimising.





### **MEASURING**













#### **ANALOGUE INPUT RANGES**

0 to 24mA 0 to 32V

-10 to 100mV

Thermocouple types are the K, J, T, B, R, S, E, N. C(W5) and D(W3) (IEC 584-3).

#### **IMPEDANCE**

Input impedance  $\pm 17\Omega$  Input impedance  $\pm 110k\Omega$  Input impedance >  $1M\Omega$  Input impedance >  $1M\Omega$ 

# ACCURACY

0.01% 1μA 0.005% 1mV 0.01% 1μV 0.05% 0.1°C

#### SOURCING

#### **ANALOGUE OUTPUT RANGES**

0 to 24mA

-10 to 100mV

Thermocouple types are the K, J, T, B, R, S, E, N. C(W5) and D(W3) (IEC 584-3).

## **IMPEDANCE**

Max load  $500\Omega$  Min. load  $600\Omega$  Min. load  $600\Omega$ 

# ACCURACY

0.01% 0.01% 0.05%

#### **RESOLUTION**

**RESOLUTION** 

1μΑ 1μV 0.1°C

#### **ISOLATION**

# CALOG Calibrators

The *CALOG* range of process instrumentation calibrators are designed for servicing, repairs in the workshop and the plant environment. They are tough, sophisticated precision instruments that are portable, compact and user-friendly.

Robust enough to withstand the rigors of most industrial environments, they are powered by long-life Nickel metal hydride batteries, monitored by 'fuel gauges' and incorporate a clear, back-lit graphic display.

For quick source value set-up, the CALOG uses the "key-per-digit" numeric setting feature that enables the user to scroll each digit up or down.

The graphic display can be selected to display the measured value or trend with programmable time base

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	Features	
00000	Small, rugged, handheld with a protective rubber cover.  Graphic display of measured value, percent and battery status  Contain serial technology components for compact size, accuracy and reliability  Programmable auto-off, restart at last setting and selectable display resolution  NiMH Battery pack, charger, carry case, and test leads supplied as standard  1 year guarantee	
	Environmental	
	Operating temperature range Storage temperature range Humidity	0 to +50°C -20 to +55°C <85% non-condensing
Mechanical Specifications		
	Dimensions (with the boot on) Dimensions (without the boot on) Protection Weight	85 x 155 x 43mm, IP54 rating (dust and splash proof) 77 x 145 x 34mm, IP54 rating (dust and splash proof) UL 94 V-0 flame retardant ABS plastic with rubber boot 340g
General Specifications		
	Display Keypad Batteries Battery life Error messages	128 x 64 graphics display with back-lit LCD 16 Key embossed buttons NiMH battery pack with temperature sensing Approx. 10 Hours, loop power enabled sourcing 12mA Approx. 50 Hours, loop power disabled
	Over range Under range mA loop error mA loop ohms to high	<ul> <li>with audible warning</li> <li>with audible warning</li> <li>"loop error" with audible warning</li> <li>"check loop Ω" with audible warning</li> </ul>