CALOG - TEMP

with Datalogging

The *CALOG* **- TEMP** is a high precision, multi-functional, hand-held calibrator suitable for the process control industry. Its speciality is Thermocouple and Resistance Temperature Detector(RTD) based instruments which it can measure and source. Simultaneous measuring of milliamps whilst sourcing millivolts or ohms or TC or RTD is possible. The trend feature is ideal for graphing temperature profiles and PID controller optimization. Its small size, long battery life and high precision make the *CALOG* **- TEMP** ideal for industrial field calibration.

OR

MEASURING

RTD | TC | mA | mV | Ω

ANALOGUE INPUT RANGES	IMPEDANCE	ACCURACY	RESOLUTION
0 to 24mA	Input impendence ±17W	0.02%FS	1µA
-10 to 100mV	Input impedance > 1MW	0.01%FS	1µV
Thermocouple types are the K, J, T, B, R, S, E, N, U, L	Input impedance > 1MW	0.01%FS*	0.1°C
		*(Excluding cold junction)	
0 to 400.00W		0.05%FS	0.01W
0 to 2000.0W		0.05%FS	0.1W
RTD types Pt50, Pt100, Pt200, Pt500 and Pt1000 Ni100 and Ni120		0.05%FS	0.01ºC

Measurement of Ohms and RTD in 2,3 or 4-wire configuration
Continuity with a 100W trigger. Visual and audible confirmation

SOURCING

ANALOGUE OUTPUT RANGES	MAX LOAD	ACCURACY	RESOLUTION
0 to 24mA	Output load max500W	0.02%FS	1µA
-10 to 100mV	Min. load 100W	0.01%FS	1µV
Thermocouple types are the K, J, T, B, R, S, E, N, U, L		0.01%FS*	0.1°C
		*(Excluding cold junction)	
1 to 400. 00W	10 - 400W	0.05%FS	0.01W
1 to 2200. 0W	10 - 2k2W	0.05%FS	0.1W
RTD types Pt50, Pt100, Pt200, Pt500 and Pt1000 Ni100 and Ni120		0.05%FS	0.01ºC

ISOLATION

The mV/TC/Ohms/RTD output from the *CALOG* **- TEMP** is isolated to a maximum rating of 100VDC from mA measure/source.

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 Lithium Ion batteries and incorporate a clear, back-lit LCD 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.

Features

- Small, rugged, handheld with a protective rubber cover.
- Graphic display of measured value, percent and battery status
- Datalogging with SD Card
- Programmable auto-off, restart at last setting and selectable display resolution
- Lithium Ion Battery pack, desktop charger, carry case, safety test leads and an external temperature compensation unit supplied as standard
- 2 year guarantee against faulty material or workmanship

Environmental

Operating temperature range	0 to +50°C
Storage temperature range	-20 to +55°C
Humidity	<85% non-condensing

Mechanical Specifications

Dimensions (with the boot)	86 x 155 x 43mm, IP54 rating (dust and splash proof)
Dimensions (without the boot)	77 x 149 x 34mm, IP54 rating (dust and splash proof)
Protection	UL 94 V-0 flame retardant ABS plastic with rubber boot
Weight	340g

General Specifications

Display	128 x 64 LCD graphic display with back-light
Keypad	16 Key embossed buttons
Battery	Lithium Ion with temperature sensing
Battery run life	Approx. 8 Hours, measure and source

Error messages

Over range	^^^^ with audible warning
Under range	vvvv with audible warning
mA loop error	"loop error" with audible warning
mA loop ohms to high	"check loop " with audible warning

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