E instruments

MAXiCAL Loop, Tc Mk3

Low Cost, easy to use single function process Calibrators

MAXiCAL
Process Multifunction Calibrators

- 2 Models :

  Loop Mk2 mA, V and 24V PS.
  TC Thermocouple

- Rugged
- Easy to Use
- Wide LCD display
- Standard terminals connection (banana plug)
- Alkaline batteries field replaceable
- Certificate of calibration

CE

Calibration can be briefly described as an activity where the instrument being tested is compared to a known reference value. At the simplest level, calibration is a comparison between measurements – one of known magnitude or correctness made or set with one device, and another measurement made in as similar a way as possible with a second device. The device with the known or assigned correctness is called the standard. The second device is the unit under test or test instrument.
Calibration is often required with a new instrument or when a specified time period or a specified number of operating hours has elapsed. In addition, calibration is usually carried out when an instrument has been subjected to an unexpected shock or vibration that may have put it out of its specified limits.

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Features are related to all models equipped with full configuration. On next pages you can find specific details.

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MaxiCAL Loop Mk3

General Specifications :
Maximum voltage applied between any jack and earth ground or between any two jack : 30V
Storage temperature : -30°C-60°C
Operating temperature : -10°C-50°C
Temperature coefficient : ±0.01% of range per °C for the temperature range -10°C to 18°C and 28°C to 55°C
Relative humidity :
0 to 90% up to 30°C , 0-70% (35 to 55°C)
Battery : 6x AAA Alkaline
Size : 204mm×99mm×46mm
Weight: 450 g (inc. battery)

Simulation and Measurement Parameters			
Specification based for ambient temperature 23°C ±5°C			
Voltage	**Range**	**Res.**	**Accuracy**
mV	0 to 100 mV	0,01 mV	0,05% ±5 digit
V	0 to 20 V	0,001 V	0,05% ±5 digit
Input impedance: 2MOhm (nominal), <100pF			
Over voltage protection: 30 V			
Voltage driver capability: 1 mA			
Current	**Range**	**Res.**	**Accuracy**
mA	0 to 24 mA	0,001 mA	0,05% ±5 digit
Overload protection: 125 mA, 250V fast acting fuse			
Percent display: 0%=4mA, 100%=20mA			
Source mode: compliance 1000Ω at 20mA for battery voltage ≥6.8V			
(700ohm at 20mA for battery voltage 5.8 to 6.8V)			
Simulate mode: External loop voltage requirement: 24V nominal, 30			

MaxiCAL Tc Mk3

General Specifications :
•A precise source and measurement tool for calibrating thermocouple instruments through a thermocouple mini jack. can be indicated in units of °C, °F, or mV.
• Measure temperature from TC output
• Simulate TC output
•. Operable with eight types of thermocouples
• Calibrate linear TC transmitter with mV source function
Storage temperature : -30°C-60°C
Operating temperature : -10°C-50°C
Temperature coefficient : ±0.01% of range per °C for the temperature range -10°C to 18°C and 28°C to 55°C
Relative humidity :
0 to 90% up to 30°C , 0-70% (35 to 55°C)
Battery : 6x AAA Alkaline
Size : 204mm×99mm×46mm

Simulation and Measurement Parameters			
Specification based for ambient temperature 23°C ±5°C			
Thermocouple	**Range**	**Res.**	**Accuracy**
K	-200 to +1372°C	0,1°C	0,5°C ±1 digit
J	-200 to +1200°C	0,1°C	0,5°C ±1 digit
E	-200 to +1000°C	0,1°C	0,5°C ±1 digit
T	-200 to +400°C	0,1°C	0,5°C ±1 digit
N	-250 to +1300°C	0,1°C	0,5°C ±1 digit
S	0 to +1750°C	1°C	1°C ±1 digit
R	0 to +1750°C	1°C	1°C ±1 digit
B	+600 to +1750°C	1°C	1°C ±1 digit
Reference junction error : ±0,3°C			
Voltage	**Range**	**Res.**	**Accuracy**
mV	0 to 100 mV	0,01 mV	0,05% ±5 digit
V	0 to 20 V	0,001 V	0,05% ±5 digit
Input impedance: 2MOhm (nominal), <100pF			
Over voltage protection: 30 V			
Voltage driver capability: 1 mA			
Current	**Range**	**Res.**	**Accuracy**
mA	0 to 24 mA	0,001 mA	0,05% ±5 digit
Overload protection: 125 mA, 250V fast acting fuse			
Percent display: 0%=4mA, 100%=20mA			
Source mode: compliance 1000Ω at 20mA for battery voltage ≥6.8V,			
(700ohm at 20mA for battery voltage 5.8 to 6.8V)			
Simulate mode: External loop voltage requirement: 24V nominal, 30V maximun			

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