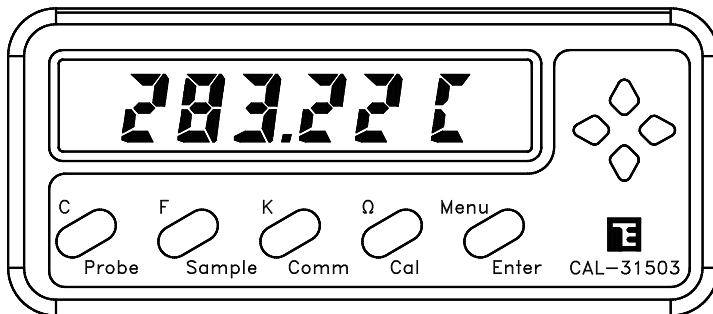


TWEENER THERMOMETER

-200 °C to +1200 °C



Features:

- Rugged reliable construction
- Newest thermometer electronics
- Front panel programmable
- RS-232 included, IEEE and software available
- Certified accuracy
- °C, °F, K or Ω
- Ideal for field use or satellite calibration laboratories

Specifications:

Model	: CAL-1503
Temperature range	: -200 °C to +1200 °C
Resistance range	: 0 Ω to 25 Ω auto ranging
Excitation current	: 3 and 5 mA (user selectable)
Accuracy	: <u>for 2,5 to 5 Ω nominal R (0,01 °C)</u> <u>for 0,25 Ω nominal R (0,01 °C)</u> -200 to +100 °C : 0,02 °C; +400 to +800 °C : 0,1 °C 0 to 500 °C : 0,25 °C +100 to +400 °C : 0,05 °C; +800 to +1000 °C : 0,125 °C 500 to 1200 °C : 0,3 °C +1000 to +1200 °C : 0,15 °C
Temperature resolution	: 0,01°
Resistance resolution	: 0 to 1 Ω : 0,00001 Ω; 1 to 20 Ω : 0,0001 Ω
Temperature coefficient per year	: < 5 ppm/°C typical
Display	: 8 digit, 7 segment 12,7 mm high LED, °C, °F, K or Ohm
Sample rate	: 1 per sec.
Sensor type	: 0,25 Ω, 2,5 Ω, 3 Ω and 5 Ω PRT
Programming	: via front panel key strokes
Probe curve	: programmable in indicator
Temperature scale	: select read-out according to ITS-90 or Callendar-Van Dusen
Filter	: programmable digital filter, exponential, 0 to 60 seconds time constant
RS-232 interface	: included; 1200, 2400, 4800 and 9600 baud
Battery back-up	: saves calibration and probe constants during power-off
Operating range	: 0 °C to +55 °C
Recommended operating range	: 13 to 33 °C

Ordering code:

Power supply	: 100 to 120 V AC or 200 to 240 V AC, 50/60 Hz (please specify)
Probe connection	: 5-pin DIN plugs, 1 included with meter, spares available
Dimensions	: 141 x 58 x 178 mm (W x H x D)
Weight	: 1 kg

CAL - 1503 - communications

RS = with RS 232 serial comm.
IE = with IEEE-488 comm.

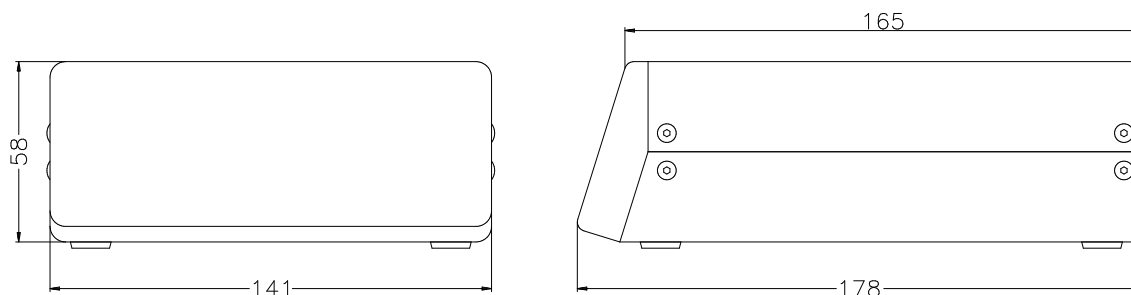
All standard preset for RTD as per IEC-751 and including TE certificate; RVA certificate at request

TWEENER THERMOMETER



-200 °C to +1200 °C

Dimensions (in mm):



Printer:

Add the optional mini-printer to your TWEENER purchase for convenient hardcopy output of your measurements. Plug it into the RS 232 port on the back of the CAL-1503 and you've got a printing data logger. Set a print interval in increments of 1 second through the front panel of the CAL-1503. The printout gives the temperature with full resolution as displayed on the CAL-1503 with an indicator for Celsius, Fahrenheit, Kelvin or Ohms. the 20 column thermal printer uses rechargeable NiCad batteries and comes complete with an AC adaptor/charger. Each printer comes with a roll of paper and a serial cable so you can log precision temperature data soon after you receive your order.

Software:

In addition, the CAL-1503 is available with a small, easy to use RS 232 communication and data acquisition software package. It displays temperature in several formats on your PC's screen: bar graph, strip chart or digital display. It also has high and low temperature alarms. It's written in C language and you get the source code so you can modify the program any way you want.

Calibration set:

The CAL-1503 is available together with a high accurate RTD probe, size to suit your requirements, in a strong case complete with a NKO certificate of whole set with accuracies up to 0,05 °C or better

Accessories:

CAL-3193	:	spare connector
CAL-3194	:	data acquisition software
CAL-3195	:	mini printer
CAL-3196	:	serial cable kit
CAL-3209	:	bezel for panel mounting
CAL-1502	:	RTD, PRT or SPRT readout or 25 to 100 Ω
CAL-1504	:	thermistor readout, 0 Ω to 1 M Ω autorange