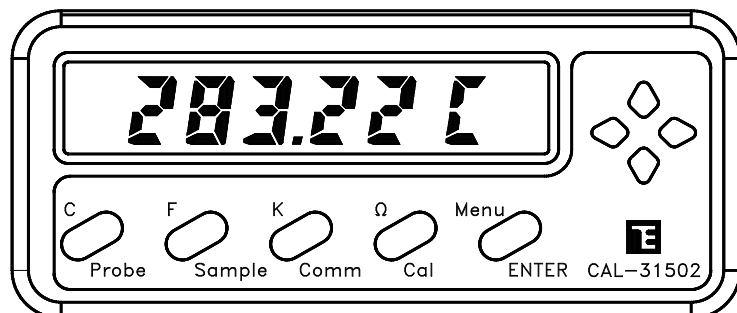


TWEENER THERMOMETER

-200 °C to +962 °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-1502
Temperature range	: -200 °C to +962 °C (-328 °F to +1764 °F)
Resistance range	: 0 Ω to 400 Ω auto ranging
Excitation current	: 0,5 and 1 mA (user selectable) 4 Hz
Accuracy	: -200 to +100 °C : 0,015 °C +100 to +400 °C : 0,03 °C +400 to +800 °C : 0,06 °C +800 to +962 °C : 0,08 °C
Temperature resolution	: 0,001°
Resistance resolution	: 0,0001 Ω
Temperature coefficient per year	: < 2 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	: 25 Ω to 100 Ω Pt, RTD, any alpha, SPRT's
Programming	: via front panel key strokes
Probe curve	: programmable in indicator
Temperature scale	: select read-out according to IPTS-68, 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
Power supply	: 90 to 130 V AC or 180 to 260 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

Ordering code:

CAL - 1502 - _____ communications

RS = with RS 232 serial comm.

IE = with IEEE-488 comm.

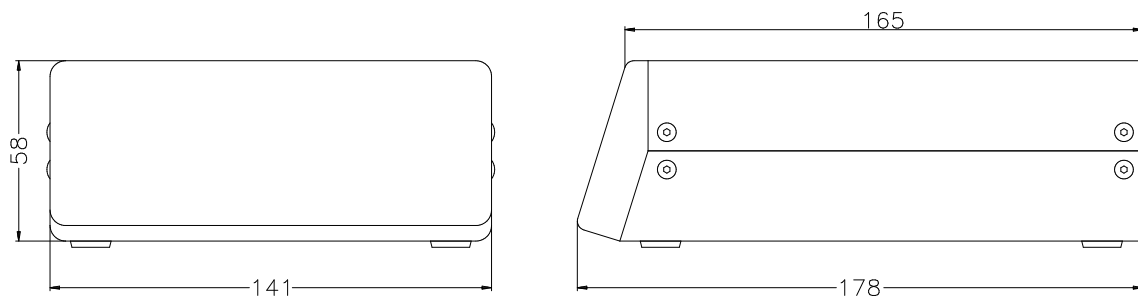
All standard preset for RTD as per IEC-751 and including TE certificate; RVA certificate at request

TWEENER THERMOMETER

-200 °C to +962 °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-1502 and you've got a printing data logger. Set a print interval in increments of 1 second through the front panel of the CAL-1502. The printout gives the temperature with full resolution as displayed on the CAL-1502 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-1502 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-1502 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.
For more details see "Quality assurance kit for autoclave users".

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-1503	: high temperature PRT readout, up to 1200 °C, 0 Ω to 25 Ω auto range
CAL-1504	: thermistor readout, 0 Ω to 1 MΩ auto range