

especially for
infrared



Infrared Thermometer Calibrator T-500PIR

- Generates temperatures from ambient to 500 °C.
- Quickly changes and stabilizes the temperature setpoints.
- Target with high homogeneity surface.

Technical Specification

T-500PIR

Operating Range ambient temperature: 23 °C	ambient to 500 °C
Accuracy internal reference with external thermometer	± (0.4 °C + 0.1% of reading) ± 0.2 °C
Resolution:	± 0.01 °C
Stability:	± 0.2 °C
Target Size:	80 mm
Target Emissivity (ε):	0.95
Heating Time:	30 min (50 °C to 500 °C)

Cooling Time:	30 min (500 °C to 200 °C)
Weight:	9 kg
Power Supply:	110 or 220 Vac, 50/60Hz
Electric Power:	1000 W
Units / temperature Scales:	°C or °F / IPTS-68 or ITS-90, user selectable
Display:	Graphic vacuum fluorescent with contrast adjustment
Dimensions: (HxWxD)	215 x 390 x 310 mm
Warranty:	1 year, except for rechargeable battery

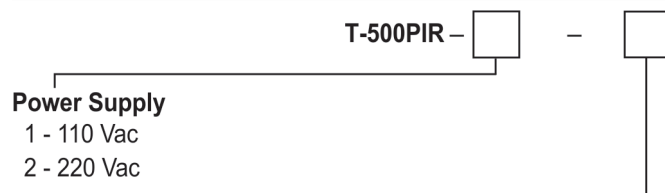
Electrical Input Specifications

Input Ranges	Resolution	Accuracy
millivolt -150 to 150 mV -500 to -150 mV 150 to 2450 mV	0.001 mV 0.01 mV 0.01 mV	± 0.01 % FS ± 0.02 % FS ± 0.02 % FS
mA -5 to 24.5 mA	0.0001 mA	± 0.02 % FS
resistance 0 to 400 Ω 400 to 2500 Ω	0.01 Ω 0.01 Ω	± 0.01 % FS ± 0.03 % FS
Pt-100 -200 to 850 °C	0.01 °C	± 0.1 °C
Pt-1000 -200 to 400 °C	0.1 °C	± 0.1 °C
Cu-10 -200 to 260 °C	0.1 °C	± 2.0 °C
Ni-100 -60 to 250 °C	0.1 °C	± 0.2 °C
TC-J -210 to 1200 °C	0.1 °C	± 0.2 °C

Input Ranges	Resolution	Accuracy
TC-K -270 to -150 °C -150 to 1370 °C	0.1 °C 0.1 °C	± 0.5 °C ± 0.2 °C
TC-T -260 to -200 °C -200 to -75 °C -75 to 400 °C	0.1 °C 0.1 °C 0.1 °C	± 0.6 °C ± 0.4 °C ± 0.2 °C
TC-E -270 to -150 °C -150 to 1000 °C	0.1 °C 0.1 °C	± 0.3 °C ± 0.1 °C
TC-N -260 to -200 °C -200 to -20 °C -20 to 1300 °C	0.1 °C 0.1 °C 0.1 °C	± 1.0 °C ± 0.4 °C ± 0.2 °C
TC-L -200 to 900 °C	0.1 °C	± 0.2 °C

Accuracy values are valid within one year and temperature range from 20 to 26 °C. Outside these limits add 0.001 % FS / °C, taking 23 °C as the reference temperature. For thermocouples with internal cold junction compensation, add a cold junction compensation error of ± 0.2 °C or ± 0.4 °F.

Order Code



Reference Thermometer

- 0 - No Reference Thermometer
- 1 - N Type Thermocouple sensor
- 2 - Secondary Pt-100 Sensor

Serial Communication: Modbus® RTU Protocol (RS-232/ RS-485).

Included Items: carrying case, straps, test leads, manual and power cord.

Optional Accessories:

Communication Interface - Order Code: 06.02.0002-00.