



# T-500PIR

## Infrared Thermometer Calibrator

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

### NEW!!

Using your cell phone or Android device with our Andromeda application, connected to the T-500PIR through Bluetooth, you can easily set-up the right compensated temperature of the T-500PIR black body following the Sakuma-Hattori equation. If you need to calibrate an IR thermometer with a different emissivity, it will automatically set-up the right temperature of the black body source.

Technical Specification		T-500PIR	
<b>Operating Range</b> ambient temperature: 23 °C		ambient to 500 °C	
<b>Accuracy</b>	internal reference	$\pm (0.4 \text{ °C} + 0.1\% \text{ of reading})$	
	with external thermometer	$\pm 0.2 \text{ °C}$	
<b>Resolution:</b>		$\pm 0.01 \text{ °C}$	
<b>Stability:</b>		$\pm 0.2 \text{ °C}$	
<b>Target Size:</b>		80 mm	
<b>Target Emissivity (ε):</b>		0.95 ± 0.01	
<b>Heating Time:</b>		30 min (50 °C to 500 °C)	
<b>Target Uniformity:</b>		$\pm 0.50 \text{ °C}$	
<b>Cooling Time:</b>		30 min (500 °C to 100 °C)	
<b>Weight:</b>		5,2 kg	
<b>Power Supply:</b>		110 or 220 Vac, 50/60Hz	
<b>Electric Power:</b>		1000 W	
<b>Units / temperature Scales:</b>		°C or °F / IPTS-68 or ITS-90, user selectable	
<b>Display:</b>		Graphic vacuum fluorescent with contrast adjustment	
<b>Dimensions: (HxWxD)</b>		260 x 180 x 270 mm	

### Order Code

T-500PIR – ☐ – ☐

#### Power Supply

- 1 - 110 Vac
- 2 - 220 Vac

#### Reference Thermometer

- 0 - No Reference Thermometer
- 1 - 1/5 Din Reference sensor

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

**Included Items:** carrying case, straps, manual, power cord and Bluetooth Interface.

#### Optional Accessories:

Communication Interface - Order Code: 06.02.0002-00.



# T-1200PIR

## Infrared Thermometer Calibrator

- Generates temperatures from 50 °C to 1200 °C.
- The calibrator provides high homogeneity of the black body cavity <1°C.
- Delivered with a “N” type thermocouple for cavity reference temperature.

### NEW!!

Using your cell phone or Android device with our Andromeda application, connected to the T-1200PIR through Bluetooth, you can easily set-up the right compensated temperature of the T-1200PIR black body following the Sakuma-Hattori equation. If you need to calibrate an IR thermometer with a different emissivity, it will automatically set-up the right temperature of the black body source.

#### Technical Specification T-1200PIR

<b>Operating Range</b> ambient temperature: 23 °C	50 °C to 1200 °C
<b>Display Accuracy</b> internal reference	± 2.2 °C
with external thermometer	± 0.75 °C
<b>Resolution:</b>	± 0.1 °C
<b>Stability:</b>	± 0.2 °C
<b>Target Size:</b>	20 mm
<b>Target Emissivity (ε):</b>	0.99
<b>Heating Time:</b>	45 min (100 °C to 1200 °C)

<b>Weight:</b>	10.4 kg
<b>Power Supply:</b>	115 Vac or 230 Vac 50/60Hz
<b>Units / Temperature Scales:</b>	°C or °F / IPTS-68 or ITS-90, user selectable
<b>Display:</b>	Graphic vacuum fluorescent with contrast adjustment
<b>Dimensions: (HxWxD)</b>	215 x 390 x 310 mm

#### Electrical Input Specifications

Input Ranges	Resolution	Accuracy
<b>millivolt</b>		
-150 to 150 mV	0.001 mV	± 0.01 % FS
150 to 2450 mV	0.01 mV	± 0.02 % FS
<b>TC-N</b>		
-20 to 1300 °C	0.1 °C	± 0.2 °C

#### Order Code

T-1200PIR—

#### Power Supply

- 1 - 115 Vac
- 2 - 230 Vac

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

**Included Items:** carrying case, straps, black body insert, test leads, insulation, manual and power cord.

#### Optional Accessories:

Communication Interface - Order Code: 06.02.0002-00.

#### Spare Accessories:

Thermocouple TC-N - Order Code: 01.22.0088-00.