

PEGASUS R

HIGH-TEMPERATURE BLACK BODY SOURCE — 150°C TO 1200°C (2192°F)

A compact furnace for calibrating radiation pyrometers, the Pegasus R sets the temperature of the furnace on a controller while an independent indicator, whose sensor is built into the furnace's cavity, indicates the actual radiance temperature. The cavity's diameter is 0.8" (20mm). The depth is 2.6" (65mm). The emissivity is 0.995. The cavity is removable and a fixed-point cell may be put in its place.

A Blackbody Target Radiation Source is housed within the Pegasus R for the calibration of radiation thermometers in the wavelength range of 9 to 14 micrometers. Incorporating suitable insulation within its design, this radiation source's aperture is 0.4" (10mm) in diameter. A scan across the aperture at 444°C demonstrates the source is uniform to better than 0.3°C. Traceability may be established with a NIST certificate for the built-in indicator and supplied probe.

The Pegasus R's temperature range is 150°C to 1200°C and it has a stability of 0.1°C. Time to temperature is 20 minutes. It weighs only 15 lb. and is easily carried in the field for on-site use. The Pegasus R can be supplied with either RS232 or RS422 communications.



KEY FEATURES

- **High Temperature Radiation Pyrometer Primary Source**
- **0.995 Emissivity**
- **Accepts Fixed Point Cells**
- **NIST Certificate**

For the built-in Indicator and supplied probe



TTI carries a full line of Non Infrared Thermometers.

SPECIFICATIONS

TEMPERATURE RANGE	150 to 1200°C (302 to 2192°F)
EMISSIVITY	0.995
STABILITY	±0.1°C (±.18°F)
DISPLAY RESOLUTION	1°C
CAVITY SIZE	.8" Ø x 2.6" deep (20mm Ø x 65mm)
TIME TO TEMPERATURE	20 minutes
POWER	2.3kW typical, 110VAC or 240VAC (50/60Hz)
DIMENSIONS	12.3" x 10.5" x 8"
WEIGHT	15 lb.

ORDERING INFORMATION

PEGASUS-R	High Temperature Black-Body Calibrator including standard probe	\$ 7,850
970-06-00A	Indium blackbody cell	2,900
970-06-00B	Tin blackbody cell	2,900
970-06-00C	Zinc blackbody cell	2,900
970-06-00D	Aluminum blackbody cell	6,800
970-06-00E	Silver blackbody cell	6,800
984-00-00	Gas flow system	4,700
ISO6-CC	Carrying case	495
CAL-NOTEPAD	Software for use with RS232/RS422	500