

HYPERION R 982

Low temperature primary Blackbody source, -10°C to 80°C

The Hyperion R 982 portable Blackbody calibration source allows for calibration of non-contact infrared thermometers from -10°C to 80°C. It is suitable for use as a primary radiation source for infrared thermometers.

Description

The Hyperion R 982 portable Blackbody calibration source allows for calibration of non-contact infrared thermometers from -10°C to 80°C. It is suitable for use as a primary radiation source for infrared thermometers.

Laboratory performance and low uncertainty calibrations are ensured by the combination of high emissivity and excellent temperature uniformity.

The digital temperature controller allows the block temperature to be set to any value from -10°C to 80°C.

Traceability of the radiance temperature is established by a separate, built-in temperature indicator and an included Platinum resistance thermometer.

A three point traceable calibration certificate is included in standard. UKAS calibration of the resistance thermometers is available in option.

Uniformity of the block is ensured by using distributed thermoelectric heat pumps with the benefit of vibration free cooling.

Key features:

- Low temperature radiation primary source: -10°C to 80°C
- Large cavity: 50 mm diameter
- Emissivity: 0.995

Specifications

Temperature range	-10°C to +80°C
Cavity size	50 x 150 mm deep
Stability	±0.1°C
Emissivity	> 0.995
Heating time	To 80°C: 40 min
Cooling time	To -10°C: 45 min

General specifications

Size	310 x 265 x 200 mm
Weight	10 kg
Display	Resolution: 0.01°C
Power supply	100 / 130 V or 208 / 240 VAC, 50/60 Hz 200 Watts

Models and accessories

Instrument:

Hyperion R 982	Low temperature primary Blackbody source, -10°C to 80°C

Delivered in standard with:

- Standard probe 935-14-13/DB
- Cal Notepad software
- Serial communication cable
- User manual
- Traceable certificate

Accessories:

812-01-06	Set of 4 orifice plates to reduce cavity size (40 / 30 / 20 / 10 mm)
935-14-13/DB	Replacement standard probe
931-22-64	Carrying case
UKAS	Calibration certificate at ±3°C
UKAS Premium	Calibration certificate at ±0.8°C

Packing information:

Size	310 x 265 x 200 mm
Weight without packing	10 kg