BB982

Blackbody Source

CALEX ELECTRONICS LIMITED

- High performance blackbody calibration source for infrared temperature sensors
- Adjustable temperature setpoint -10°C to 80°C
- Very high emissivity > 0.995
- 50 mm cavity diameter

GENERAL SPECIFICATIONS

Temperature Range	-10°C to 80°C
Emissivity	Greater than 0.995
Stability	±0.1°C
Display Resolution	0.01°C
Heating Time	45 minutes to 80°C
Cooling Time	45 minutes to -10°C
Aperture Diameter	50 mm
Cavity Depth	150 mm
PC Interface	Included
Power	200 W typical
Voltage	100-130 or 208-240 V AC
Dimensions	H 310 mm, W 265 mm, D 200 mm
Weight	10 kg

OPTIONS

Orifice Plates 10, 20, 30, 40 50 mm (Restricts Cavity Aperture)	812-01-06
Carrying Case	931-22-64

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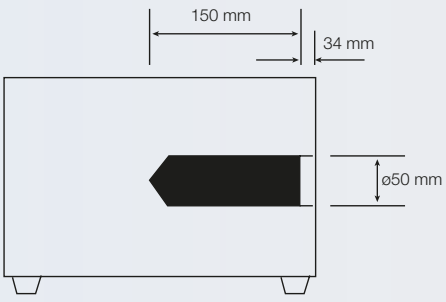

The BB982 Portable Blackbody Calibration Source allows for calibration of non-contact infrared thermometers over the temperature range -10°C to 80°C.

It is suitable for use as a primary radiation source for infrared thermometers from sub zero to 80°C.

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 included platinum resistance thermometer.

A three point traceable calibration certificate is included. UKAS calibration of the resistance thermometer is available, as is radiometric calibration.

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

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