

# BB982

## Blackbody Source



- High performance blackbody calibration source for infrared temperature sensors
- Adjustable temperature setpoint -20°C to 125°C
- Very high emissivity > 0.995
- 50 mm cavity diameter

### GENERAL SPECIFICATIONS

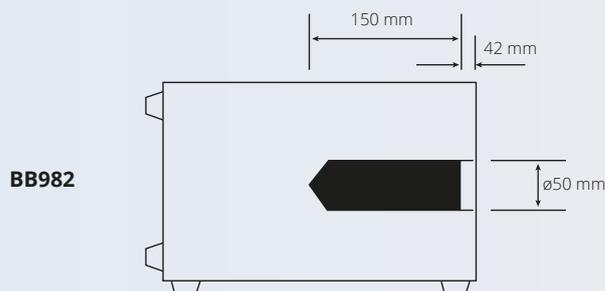
<b>Temperature Range</b>	-20°C* to 125°C
<b>Emissivity</b>	Greater than 0.995
<b>Stability</b>	±0.1°C
<b>Display Resolution</b>	0.01°C to 0.1°C
<b>Heating Time</b>	45 minutes (approx) to 125°C
<b>Cooling Time</b>	60 minutes (approx) to -10°C
<b>Aperture Diameter</b>	50 mm
<b>Cavity Depth</b>	150 mm
<b>PC Interface</b>	Included
<b>Power</b>	200 W typical
<b>Voltage</b>	Universal Input 80-264 V 50/60Hz
<b>Dimensions</b>	H 310 mm, W 265 mm, D 200 mm
<b>Weight</b>	8.5 kg

### OPTIONS

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

\*Minimum temperature is 40°C below ambient temperature

### CAVITY DIMENSIONS



The BB982 Portable Blackbody Calibration Source allows for calibration of non-contact infrared thermometers over the temperature range -20°C to 125°C.

It is suitable for use as a primary radiation source for infrared thermometers from sub zero to 125°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 cavity temperature to be set to any value from -20°C to 125°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.