

# Convir PTK Portable Infrared Temperature Calibration Checker

- ◆ Easily check the calibration of infrared temperature sensors
- ◆ Hand-held probe permits calibration to be checked in almost any situation
- ◆ No need to disconnect or remove temperature sensors from service
- ◆ Can be used to check the calibration at ambient and elevated temperatures

The Calnex PTK offers the ideal way to check the calibration of infrared temperature sensors without disconnecting them or removing them from service.

Whether the sensors are fixed or hand-held, the PTK offers the simplest way to check their accuracy.

This inexpensive piece of equipment saves time and money by pinpointing potential calibration inaccuracies early and reducing down time and production errors.

To obtain an instant check, just place the probe in front of the temperature sensor and compare the measured temperature with that on the PTK's indicator.

Also included is a high accuracy thermistor air probe that allows the ambient temperature around sensors to be measured, thus ensuring they are operating within acceptable limits.

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## PTK CONTENTS

- ◆ Heated infrared calibration check probe, with variable power supply
- ◆ Hand-held indicator, complete with battery
- ◆ Thermistor air probe
- ◆ Strong carry case
- ◆ Instruction manual

## SPECIFICATIONS

### Infrared Calibration Check Probe

The infrared probe consists of a black anodized aluminium disk, which has a heating element bonded to the underside. The disk heats to approximately 40°C above ambient. Embedded into the probe is a high accuracy thermistor, which continually monitors the temperature of the disk. The temperature is displayed on a hand-held indicator and may be compared with the reading from the infrared sensor to check its calibration. The supply has an adjustable output so that the calibration temperature can be varied.

Error between disk temperature and thermistor temperature    Less than 0.5°C  
Thermistor accuracy    Better than 0.2°C

*Note the probe can also be used without the heater activated to check the calibration at ambient temperature*

### Hand-Held Indicator

#### Environmental

Ambient temperature range -30 to 50°C

Storage temperature range -40 to 50°C

Humidity 0 to 70% RH

#### Electrical

Measurement range -50 to 150°C

Temperature Scales °C / °F

Accuracy @23°C +/- 0.2 °C

Characterising accuracy Less than 0.05°C

Temperature coefficient 0.01% of reading/°C

Resolution 0.1°

#### General

Battery type PP3 9V IEC 6F22

Weight 155 g

Dimensions 130x70x33 mm

### Thermistor air sensor

Accuracy (thermistor) Less than 0.2°C

Measurement ranges -50 to 150°C

