

Convir ST8810 Series Low Cost Handheld Infrared Thermometer

- ◆ Measure temperature of hot or moving objects from a safe distance
- ◆ Easy and safe to use
- ◆ Built-in laser pointer to improve aim
- ◆ Narrow field of view
- ◆ Backlit display with Data Hold
- ◆ °C/°F switchable
- ◆ Fast sampling time
- ◆ Auto-hold and power off
- ◆ Automatic range selection and resolution (ST8812 only)

The ST8810 Series is a range of low cost, handheld infrared thermometers with laser sighting and a large backlit LCD display.

There are three models to choose from, each with different temperature ranges to suit different applications. The emissivity setting is fixed at 0.95, making the ST8810 Series ideal for most organic materials and non-shiny (painted, corroded or anodised) metals.

Readings can be taken in °C or °F, and when the trigger is released the last measurement is held for 7 seconds before the unit automatically turns off. The narrow, 8:1, field of view helps to minimise errors by providing a small diameter measurement area.

These rugged units will operate in ambient temperatures from 0°C to 50°C and are powered by a standard PP3 9 V battery.

Model ST8812 measures from -50°C to 200°C with 0.1°C resolution and from 200°C to 500°C with 1°C resolution - the change in resolution occurs automatically. Model ST8811 measures from -20°C to 450°C and Model ST8810 measures from -20°C to 270°C.

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ST8810

Temperature Range	Resolution	Accuracy
-20°C to 270°C	1°C	±2% or ±2°C
-4°F to 518°F	1°F	±2% or ±4°F

ST8811

Temperature Range	Resolution	Accuracy
-20°C to 450°C	1°C	±2% or ±2°C
4°F to 842°F	1°F	±2% or ±4°F

ST8812

Temperature Range (Automatic selection 0.1°C/1°C)	Resolution	Accuracy
-50.0°C to 200.0°C	0.1°C	±5°C
		2% or ±2°C
200°C to 500°C	1°C	2% or ±2°C

Temperature Range (Automatic selection 0.1°F/1°F)	Resolution	Accuracy
-58.0°F to 200.0°F	0.1°F	±9°F
		2% or ±4°F
200°F to 932°F	1°F	2% or ±4°F

Note: 1. Accuracy is given at 18°C to 28°C (64°F to 82°F), less than 80% RH 2. Accuracy specified is for emissivity of 0.95

GENERAL SPECIFICATIONS

Display	3.5 digit (1999 count) LCD with backlighting
Sample Rate	1 second (approx.)
Emissivity	Fixed at 0.95
Field-of-view	8:1
Spectral Range	6 to 14 µm
Power Off	Automatic shut off after 7 seconds
Ambient Temp. Range	0°C to 50°C (32°F to 122°F)
Relative Humidity	Max. 80% RH
Power	PP3 9 V battery
Weight	180 g
Dimensions	159 x 79 x 57.2 mm

DISTANCE (D) TO SPOT SIZE (S)

