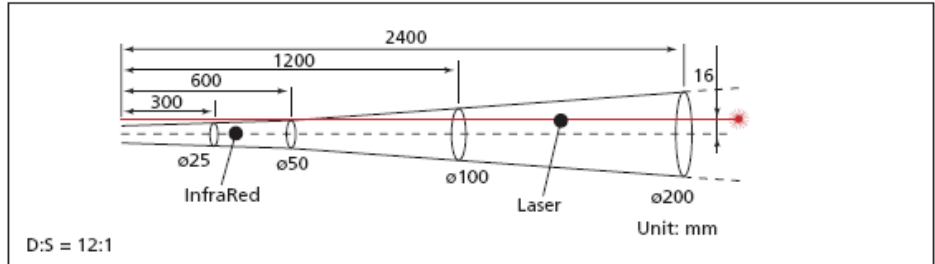


# Convir ST8818 Series Professional Low Cost Handheld Infrared Thermometer

- Measure temperature of hot or moving objects from a safe distance
- Easy and safe to use
- Wide temperature range
- 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

DISTANCE (D) TO SPOT SIZE (S)



The Convir ST8818 Series is a range of professional, low cost, handheld infrared thermometers with laser sighting and large backlit LCD displays. Each unit measures from  $-50^{\circ}\text{C}$  to  $200^{\circ}\text{C}$  with  $0.1^{\circ}\text{C}$  resolution and from  $200^{\circ}\text{C}$  upwards with  $1^{\circ}\text{C}$  resolution - the change in resolution takes place automatically. They also offer a superior 12:1 field of view, which helps to minimise errors by producing a small diameter measurement area. The emissivity setting is fixed at 0.95, making the ST8818 Series ideal for most organic materials and non-shiny (painted, corroded or anodised) metals. Readings can be taken in  $^{\circ}\text{C}$  or  $^{\circ}\text{F}$ , and when the trigger is released the last measurement is held for 7 seconds before the unit automatically turns off. This rugged unit will operate in ambient temperatures from  $0^{\circ}\text{C}$  to  $50^{\circ}\text{C}$  and is powered by a standard PP3 9 V battery. The ST8818 is supplied with a soft carrying case, and the ST8828 is supplied with a hard carrying case.

## GENERAL SPECIFICATIONS

Display	3.5 digit LCD with backlighting
Response Time	Less than 1s
Emissivity	Fixed at 0.95
Field-of-view	12:1
Spectral Range	8 to $14\ \mu\text{m}$
Power Off	Automatic shut off after 7 seconds
Ambient Temp. Range	$0^{\circ}\text{C}$ to $50^{\circ}\text{C}$ ( $32^{\circ}\text{F}$ to $122^{\circ}\text{F}$ )
Relative Humidity	10% to 90% RH operating, <80% storage
Power	PP3 9 V battery
Weight	290 g
Dimensions	230 x 56 x 100 mm

### ST8818

Temperature Range (Automatic selection $0.1^{\circ}\text{C}/1^{\circ}\text{C}$ )	Resolution	Accuracy
$-50.0^{\circ}\text{C}$ to $200.0^{\circ}\text{C}$	$-50.0^{\circ}\text{C}$ to $-20.0^{\circ}\text{C}$	$\pm 5^{\circ}\text{C}$
	$-20.0^{\circ}\text{C}$ to $200.0^{\circ}\text{C}$	$\pm 1.5\%$ or $\pm 2^{\circ}\text{C}$
$200^{\circ}\text{C}$ to $550^{\circ}\text{C}$	$1^{\circ}\text{C}$	$\pm 1.5\%$ or $\pm 2^{\circ}\text{C}$

Temperature Range (Automatic selection $0.1^{\circ}\text{F}/1^{\circ}\text{F}$ )	Resolution	Accuracy
$-58.0^{\circ}\text{F}$ to $200.0^{\circ}\text{F}$	$-58.0^{\circ}\text{F}$ to $-4.0^{\circ}\text{F}$	$\pm 9^{\circ}\text{F}$
	$-4.0^{\circ}\text{F}$ to $200.0^{\circ}\text{F}$	$\pm 1.5\%$ or $\pm 4^{\circ}\text{F}$
$200^{\circ}\text{F}$ to $1022^{\circ}\text{F}$	$1^{\circ}\text{F}$	$\pm 1.5\%$ or $\pm 4^{\circ}\text{F}$

### ST8828

Temperature Range (Automatic selection $0.1^{\circ}\text{C}/1^{\circ}\text{C}$ )	Resolution	Accuracy
$-50.0^{\circ}\text{C}$ to $200.0^{\circ}\text{C}$	$-50.0^{\circ}\text{C}$ to $-20.0^{\circ}\text{C}$	$\pm 5^{\circ}\text{C}$
	$-20.0^{\circ}\text{C}$ to $200.0^{\circ}\text{C}$	$\pm 1.5\%$ or $\pm 2^{\circ}\text{C}$
$200^{\circ}\text{C}$ to $1000^{\circ}\text{C}$	$1^{\circ}\text{C}$	$\pm 1.5\%$ or $\pm 2^{\circ}\text{C}$

Temperature Range (Automatic selection $0.1^{\circ}\text{F}/1^{\circ}\text{F}$ )	Resolution	Accuracy
$-58.0^{\circ}\text{F}$ to $200.0^{\circ}\text{F}$	$-58.0^{\circ}\text{F}$ to $-4.0^{\circ}\text{F}$	$\pm 9^{\circ}\text{F}$
	$-4.0^{\circ}\text{F}$ to $200.0^{\circ}\text{F}$	$\pm 1.5\%$ or $\pm 4^{\circ}\text{F}$
$200^{\circ}\text{F}$ to $1832^{\circ}\text{F}$	$1^{\circ}\text{F}$	$\pm 1.5\%$ or $\pm 4^{\circ}\text{F}$

Note: 1. Accuracy is given at  $18^{\circ}\text{C}$  to  $28^{\circ}\text{C}$  ( $64^{\circ}\text{F}$  to  $82^{\circ}\text{F}$ ), less than 80% RH 2. Accuracy specified is for emissivity of 0.95



## SOUTHERN TEMPERATURE SENSORS LTD.

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