ST680 Series
Handheld Infrared Thermometer

CALEX
ELECTRONICS LIMITED

- Wide temperature range, -50°C to 1000°C
- Narrow 50:1 field of view
- USB Data Output (ST689)
- Input for type K thermocouple (ST689)
- Built-in laser pointer to improve aim
- Adjustable emissivity
- Adjustable high and low alarms
- Backlit LCD display
- °C/°F switchable
- Fast sampling time
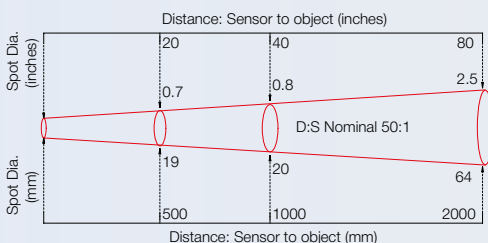- Auto-hold and power off
- High quality construction

GENERAL SPECIFICATIONS

Field-of-view	50:1
Temperature Range	-50°C to 1000°C (-58°F to 1832°F)
Accuracy*	±3°C (±5°F) from -50°C to -20°C (-58°F to -4°F)
	±2°C (±3°F) from -20°C to 100°C (-4°F to 212°F)
	±2% above 100°C (212°F)
Spectral Range	8 to 14µm
Repeatability	±1°C (±2°F)
Resolution	0.1°C (0.1°F)
Response Time	500ms
Ambient Range	0°C to 50°C (32°F to 122°F), 10% to 90%RH
Power OFF	Automatic after approx. 6s
Display	4-digit LCD with backlighting
Battery Type	9V, PP3
Dimensions	200mm x 127mm x 47mm
Weight	330g

*Accuracy is given at ambient temperature of 25°C (77°F)

	ST688	ST689
Emissivity	Adjustable 0.1 to 1.0	Adjustable 0.1 to 1.0
Type K Thermocouple Input	NO	YES
USB Data Output	NO	YES
10 point memory	YES	YES
Audible Alarm	YES	YES
°C/°F Switchable	YES	YES
Backlight	YES	YES
Laser Sight Switchable	YES	YES
Max/Min/Avg/ΔT	YES	YES
Carrying case	YES	YES

DISTANCE (D) TO SPOT SIZE (S)

Distance: Sensor to object (inches)
Spot Dia. (inches)
20 — 0.7
40 — 0.8
80 — 2.5
D:S Nominal 50:1
Spot Dia. (mm)
500 — 19
1000 — 20
2000 — 64
Distance: Sensor to object (mm)

The ST680 Series is a range of high quality, handheld infrared thermometers with laser sighting and large backlit LCD displays.

Each unit measures from -50°C to 1000°C with 0.1°C resolution. They also offer a superior 50:1 field of view, which helps to minimise errors by producing a small diameter measurement area.

Model ST689 has a USB data output.

The emissivity setting is adjustable from 0.1 to 1.0 and both models provide adjustable audible alarms.

Readings can be taken in °C or °F, and when the trigger is released the last measurement is held for approximately 6 seconds before the unit automatically turns off.

ST680 series thermometers will operate in ambient temperatures from 0°C to 50°C and are powered by a standard PP3, 9V battery.

Each unit is supplied complete with a soft carrying case.

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Specifications subject to change without notice