## ST633 and ST642 Configurable Handheld Infrared Thermometers



## FEATURES

|                                   | ST633                     | ST642                 |
|-----------------------------------|---------------------------|-----------------------|
| Emissivity Setting                | Selectable 0.95, 0.7, 0.3 | Adjustable 0.1 to 1.0 |
| Type K Thermocouple Input         | NO                        | YES                   |
| eSmart Emissivity Correction      | NO                        | YES                   |
| Colour Changing Display for Alarm | NO                        | YES                   |
| Tripod Mounting Thread            | NO                        | YES                   |
| Audible Alarm                     | YES                       | YES                   |
| °C/°F Switchable                  | YES                       | YES                   |
| Backlight                         | YES                       | YES                   |
| Laser Sight Switchable On/Off     | YES                       | YES                   |
| Max/Min/Avg/∆T                    | YES                       | YES                   |
| Carrying case included            | YES                       | YES                   |
| 10 Point Memory                   | YES                       | NO                    |

## SPECIFICATIONS

| Temperature Range | <b>ST633:</b> -35°C to 630°C (-31°F to 1,166°F)<br><b>ST642:</b> -32°C to 535°C (-25°F to 999°F)<br>Type K Thermocouple input:<br>-200°C to 1380°C (-328°F to 2516°F) |
|-------------------|---|
| Accuracy (ST633)* | ± 2.5°C (± 4.5°F) from -35°C to 0°C (-31 to 32°F),<br>± 1.5°C (± 2.7°F) from 0°C to 100°C (32 to 212°F),<br>± 2% above 100°C (212°F)                                  |
| Accuracy (ST642)* | ± 3°C (± 5°F) from -32°C to -20°C (-25°F to -4°F),<br>± 2°C (± 3°F) from -20°C to 100°C (-4°F to 212°F),<br>± 2% above 100°C (212°F)                                  |
|                   | Type K Thermocouple input: ± 1.5% + 1° C/F  |
| Optics            | 12:1 divergent (see OPTICS)   |
| Spectral Range    | 5 to 14 µm  |
| Repeatability     | ±1°C (±2°F)   |
| Resolution        | 0.1°C (0.1°F)   |
| Response Time     | 500 ms  |
| Ambient Range     | 0°C to 50°C (32°F to 122°F), 10% to 90% RH  |
| Power OFF         | Automatic after approx. 7 s   |
| Display           | LCD with backlighting   |
| Battery Type      | 9 V, PP3  |
| Dimensions        | 180 x 130 x 40 mm (ST642)<br>156 x 100 x 32 mm (ST633)  |
| Weight            | 195 g (ST642) / 133 g (ST633)   |

• Wide temperature range

- Built-in laser pointer to improve aim
- Narrow field of view
- Input for type K thermocouple (ST642)
- · Adjustable / selectable emissivity setting
- Adjustable high and low alarms, audible and visual (ST642)
- Backlit display with Reading Hold
- °C / °F switchable
- Fast sampling time
- Auto-hold and power off
- High quality construction

The ST633 and ST642 are low-cost, high-quality handheld infrared thermometers with laser sighting and a large backlit LCD display.

A wide temperature range covers most general industrial applications.

Both units offer a narrow 12:1 field of view, with a small diameter measurement area allowing the unit to be precisely aimed.

The default emissivity setting is 0.95, making the ST633 and ST642 ideal for most organic materials and non-reflective (painted, oxidised or anodised) metals. The emissivity setting is selectable (ST633) or adjustable from 0.1 to 1.0 (ST642), and can be set automatically on the ST642 by using the thermocouple input and eSmart feature.

Both models have adjustable audible alarms. The ST642 has visual alarms: the colour of the display changes when the target temperature exceeds the alarm set point.

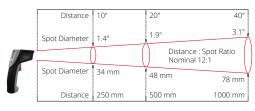
Readings can be taken in °C or °F, and when the trigger is released the last measurement is held for approximately 7 seconds before the unit automatically powers off.

These 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 with a soft carrying case.

## OPTICS

ST633 and ST642



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



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