FTK

Fixed Mount Infrared Temperature Calibration Checker





The FTK provides a quick and accurate way to check the calibration of infrared temperature sensors.

This rugged and portable unit is designed to provide fast calibration checks anywhere they are needed, from the factory to the workshop or laboratory.

Eighteen models are available; offering target temperatures from 35°C or 150°C, all providing outstanding stability with less than ±0.2°C deviation.

The FTK takes between 5 and 15 minutes to heat and stabilise at the desired temperature (depending on the model), and uses a clear LED to show when it has reached that temperature: green when the FTK is warming up, orange when the FTK is ready for operation and red when the FTK is above the calibration temperature.

The FTK can be used with any infrared temperature sensor that is able to measure between 35°C and 150°C and can focus on a target area less than \emptyset 50.8 mm.

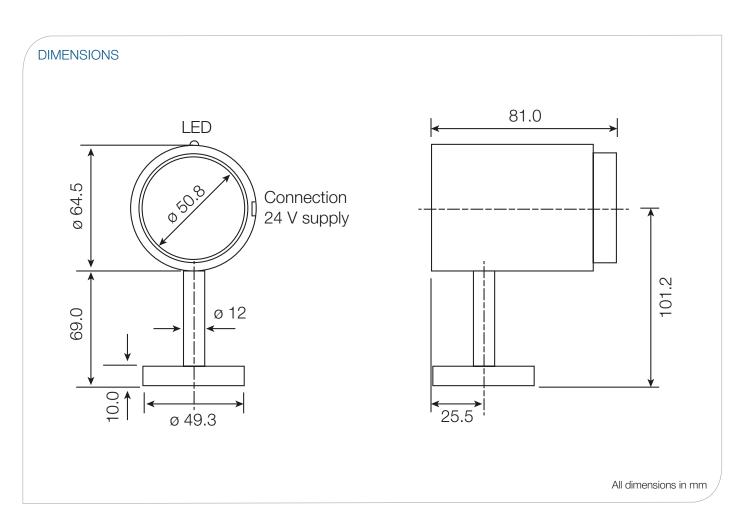
SPECIFICATIONS

| Onliberation Course | | |
|---------------------------------|--|--|
| Calibration Source | | |
| Target Temperature: | from 35 °C to 150 °C depending on model (see table overleaf) | |
| Emissivity (e): | 0.98 ± 0.004 (for wavelength of 2 to 5.4 μ m and 8 to 14 μ m) | |
| Aperture diameter: | 50.8 mm | |
| Warm-up time: | max. 5 minutes (FTK 35) to 15 minutes (FTK 150) | |
| Temperature uncertainty: | 0.4 °C for T _{amb} = 10 to 30 °C (FTK 35 - 120) 0.6 °C for T _{amb} = 0 to 10 °C (FTK 35 - 120) 0.5 °C for T _{amb} = 10 to 40 °C (FTK 130 - 150) 0.7 °C for T _{amb} = 0 to 10 °C (FTK 130 - 150) | |
| Repeatability: | 0.2 °C | |
| Stability: | 0.1 °C | |
| Temperature uniformity: | 0.2 °C (central area Ø 45 mm) | |
| Operating temperature: Tamb: | 0 to 30 °C, temporary (2 minutes) up to 70 °C | |
| Storage temperature: | 0 to 70 °C | |
| Relative humidity: | 10 to 85 %, non condensing | |
| Status LED: | green: warm-up orange: ready for operation red: above calibration temperature | |
| Power supply: | 24 V DC, max. 1 A | |
| Protection class: | IP50 (EN 60529) | |
| Weight: | 0.9 kg | |
| Dimensions [mm]: | 64.5 x 81.0 x 133.5 (Ø x D x H) | |
| CE marking: | according to EU regulations | |

POWER SUPPLY

| Model | Description |
|------------------|---|
| Power supply | 100 to 240 V AC, 50 Hz |
| Output | 24 V DC, 1.3 A |
| Protection class | EN 60950 |
| Weight | approx. 0.3 kg |
| CE marking | according to EU directives regarding electromagnetic immunity |





MODELS

| Model | Description | Target Temperature |
|---------|----------------------------|--------------------|
| FTK 35 | Calibration source FTK 35 | 35 °C |
| FTK 45 | Calibration source FTK 45 | 45 °C |
| FTK 50 | Calibration source FTK 50 | 50 °C |
| FTK 55 | Calibration source FTK 55 | 55 °C |
| FTK 60 | Calibration source FTK 60 | 60 °C |
| FTK 65 | Calibration source FTK 65 | 65 °C |
| FTK 70 | Calibration source FTK 70 | 70 °C |
| FTK 75 | Calibration source FTK 75 | 75 °C |
| FTK 80 | Calibration source FTK 80 | 80 °C |
| FTK 85 | Calibration source FTK 85 | 85 °C |
| FTK 90 | Calibration source FTK 90 | 90 °C |
| FTK 95 | Calibration source FTK 95 | 95 °C |
| FTK 100 | Calibration source FTK 100 | 100 °C |
| FTK 110 | Calibration source FTK 110 | 110 °C |
| FTK 120 | Calibration source FTK 120 | 120 °C |
| FTK 130 | Calibration source FTK 130 | 130 °C |
| FTK 140 | Calibration source FTK 140 | 140 °C |
| FTK 150 | Calibration source FTK 150 | 150 °C |

ACCESSORIES

| Model | Description |
|-------------|---|
| FTKPSU | Power supply 100 to 240 V AC or 24 V DC |
| FTKPLUG-EU | Power plug EU |
| FTKPLUG-USA | Power plug US |
| FTKPLUG-UK | Power plug UK |
| FTKPLUG-AUS | Power plug AUS |
| FTKMOUNT | Adjustable ball and socket mounting block |