## Fluke 9132/9133 Portable Infrared Calibrator



## Key features

9132
For IR calibrations above normal ambient, the 9132 provides a stable measurement surface up to $500^{\circ} \mathrm{C}\left(932{ }^{\circ} \mathrm{F}\right)$. Short heating and cooling times mean you won't have to wait long to get your work done.

9133
If you're calibrating IR guns at cold temperatures, you'll love our new 9133. With solid-state cooling technology, this new IR calibrator reaches $-30^{\circ} \mathrm{C}\left(22^{\circ} \mathrm{F}\right)$ in normal ambient conditions. With a conveniently located dry gas fitting on the front bezel, ice build up on the target can be avoided. At the upper end of its range, the 9133 provides stable temperatures to $160^{\circ} \mathrm{C}$ $\left(320^{\circ} \mathrm{F}\right)$.

With heating and cooling times of about 15 minutes from ambient to either extreme, the 9133 gets you to temperature quickly and performs when it gets there.

## Product overview: Fluke 9132/9133 Portable Infrared Calibrator

Precision when you need it for infrared temperature calibration

- Certify IR pyrometers from $-30^{\circ} \mathrm{C}$ to $500^{\circ} \mathrm{C}\left(-22^{\circ} \mathrm{F}\right.$ to $\left.932^{\circ} \mathrm{F}\right)$
- Large $57 \mathrm{~mm}(2.25 \mathrm{in})$ blackbody target
- RTD reference well for contact temperature measurement
- Small, compact design

Whether you're using in-line or handheld infrared pyrometers, you need good calibration standards to verify their accuracy Our portable IR calibrators provide stable blackbody targets for calibrating noncontact IR thermometers from $-30^{\circ} \mathrm{C}$ to 500 ${ }^{\circ} \mathrm{C}$.

These units feature a temperature controlled measurement surface with a diameter of $2.25^{\prime \prime}$ ( 57 mm ). The target temperature can be controlled in set-point increments of $0.1^{\circ}$ from $-30^{\circ} \mathrm{C}$ to $500^{\circ} \mathrm{C}$ and a well is located directly behind the blackbody surface for contact calibration

## Specifications: Fluke 9132/9133 Portable Infrared Calibrator

| Specifications | 9132 | 9133 |
| :--- | :--- | :--- |
| Temperature range | $50^{\circ} \mathrm{C}$ to $500^{\circ} \mathrm{C}$ <br> $\left(122^{\circ} \mathrm{F}\right.$ to $\left.932^{\circ} \mathrm{F}\right)$ | $-30^{\circ} \mathrm{C}$ to $150^{\circ} \mathrm{C}$ at $23^{\circ} \mathrm{C}$ ambient <br> $\left(-22^{\circ} \mathrm{F}\right.$ to $302^{\circ} \mathrm{F}$ at $73^{\circ} \mathrm{F}$ ambient) |
| Accuracy | $\pm 0.5^{\circ} \mathrm{C}$ at $100^{\circ} \mathrm{C}$ <br> $\left( \pm 0.9^{\circ} \mathrm{F}\right.$ at $\left.212^{\circ} \mathrm{F}\right)$ <br> $\pm 0.8^{\circ} \mathrm{C}$ at $500^{\circ} \mathrm{C}$ <br> $\left( \pm 1.4^{\circ} \mathrm{F}\right.$ at $\left.932^{\circ} \mathrm{F}\right)$ | $\pm 0.4^{\circ} \mathrm{C}\left( \pm 0.72^{\circ} \mathrm{F}\right)$ |
|  | $\pm 0.1^{\circ} \mathrm{C}$ at $100^{\circ} \mathrm{C}$ <br> $\left( \pm 0.8^{\circ} \mathrm{F}\right.$ at $\left.212^{\circ} \mathrm{F}\right)$ <br> $\pm 0.3^{\circ} \mathrm{C}$ at $500^{\circ} \mathrm{C}$ <br> $\left( \pm 0.54^{\circ} \mathrm{F}\right.$ at $\left.932^{\circ} \mathrm{F}\right)$ |  |
| Stability | 57 mm $(2.25 \mathrm{in})$ | $\pm 0.1^{\circ} \mathrm{C}\left( \pm 0.18^{\circ} \mathrm{F}\right)$ |

## Ordering information



Fluke 9132
Fluke 9132 Portable Infrared Calibrator
$50^{\circ} \mathrm{C}$ to $500^{\circ} \mathrm{C}$

Fluke 9133
Fluke 9133 Portable Infrared Calibrator
$-30^{\circ} \mathrm{C}$ to $150^{\circ} \mathrm{C}$ at $23^{\circ} \mathrm{C}$ ambient

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