

## Fluke 566 and 568 Thermometers

### **Technical Data**

# Two-in-one infrared and contact thermometers with an innovative dot matrix display.

Just when you thought advanced IR temperature measurement should be easier! With a straight-forward user interface and soft-key menus, the Fluke 566 and 568 make even complex measurements easy. Quickly navigate and adjust emissivity, start data logging, or turn on and off alarms, with just a few pushes of a button.

With a rugged, easy-to-use, ergonomic design, the Fluke 566 and 568 can stand up to tough industrial, electrical, and mechanical environments.

- Measure -40 °C to 800 °C /-40 °F to 1472 °F (568) or -40 °C to 650 °C/-40 °F to 1202 °F (566)
- Easily access advanced features with the soft-key buttons and graphical display
- Measure smaller objects from further away, with a distance-to-spot ratio of 50:1 (568) or 30:1 (566)
- Compatibility with all standard miniconnector K-type thermocouples allows you to preserve your thermocouple investments
- Confidently measure a wide variety of surfaces with the adjustable emissivity feature, including a built-in material table
- Capture up to 99 points (568) or 20 point (566) of data, for downloading and recalling later
- Easily trend and analyze data with included FlukeView® Forms software (568)
- See your data right away without leaving the site, using the USB (568) and your laptop for "Hands-free" datalogging
- Confidently troubleshoot equipment with 1 % measurement accuracy
- Versatile interface with six languages from which to choose
- Two-year warranty

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#### **Product specifications**

|  | 566  | 568  |
|--|--|--|
| Infrared temperature range                     | -40 °C to 650 °C (-40 °F to 1202 °F)   | -40 °C to 800 °C (-40 °F to 1472 °F)           |
| Infrared accuracy                              | $< 0 \ ^{\circ}C \ (32 \ ^{\circ}F): \pm (1.0 \ ^{\circ}C \ (\pm 2.0 \ ^{\circ}F) + 0.1^{\circ}/1 \ ^{\circ}C \ or \ ^{\circ}F);$<br>$> 0 \ ^{\circ}C \ (32 \ ^{\circ}F): \pm 1 \ \% \ or \ \pm 1.0 \ ^{\circ}C \ (\pm 2.0 \ ^{\circ}F), \ whichever \ is \ greater$ |  |
| Display resolution                             | 0.1 °C / 0.1 °F  |  |
| Infrared spectral response                     | 8 µm to 14 µm  |  |
| Infrared response time                         | < 500 msec   |  |
| Thermocouple Type-K<br>input temperature range | -270 °C to 1372 °C (-454 °F to 2501 °F)  |  |
| Thermocouple Type-K<br>input accuracy          | -270 °C to -40 °C: ± (1 °C + 0.2 °/1 °C) (-454 °F to -40 °F: ± (2 °F + 0.2 °/1 °F))<br>-40 °C to 1372 °C: ± 1 % or 1 °C (-40 °F to 2501 °F: ± 1 % or 2 °F), whichever is greater   |  |
| D:S (distance to measurement spot size)        | 30:1   | 50:1   |
| Laser sighting                                 | Single–point laser $< 1$ mw output Class 2 (II) operation, 630 nm to 670 nm  |  |
| Minimum spot size                              | 19 mm (0.75 in)  |  |
| Emissivity adjustment                          | By built-in table of common materials or digitally adjustable from 0.10 to 1.00 by 0.01  |  |
| Data storage with Date/Time stamp              | 20 points  | 99 points                                      |
| PC Interface and cable                         | None   | USB 2.0 with FlukeView® Forms software         |
| Hi/Low alarms                                  | Audible and two-color visual   |  |
| Min/Max/Avg/Dif                                | Yes  |  |
| Display  | Dot matrix 98 x 96 pixels with function menus  |  |
| Backlight                                      | Two levels, normal and extra bright for darker environments  |  |
| Trigger lock                                   | Yes  |  |
| Switchable Celsius and Fahrenheit              | Yes  |  |
| Power  | 2 AA/LR6 Batteries   | 2 AA/LR6 Batteries and USB when used with a PC |
| Battery life                                   | If used continuously: laser and backlight on,12 hours; laser and backlight off, 100 hours  |  |
| Operating temperature                          | 0 °C to 50 °C (32 °F to 122 °F)  |  |
| Storage temperature                            | -20 °C to 60 °C (-40 °F to 140 °F)   |  |
| Bead thermocouple Type-K range                 | -40 °C to 260 °C (-40 °F to 500 °F)  |  |
| Bead thermocouple Type-K accuracy              | ± 1.1 °C (2.0 °F) from 0 °C to 260 °C (32 °F to 500 °F), typically within 1.1 °C (2.0 °F)<br>from -40 °C to 0 °C (-40 °F to 32 °F)   |  |

#### **Ordering information**

Fluke-566 Infrared thermometer Fluke-568 Infrared thermometer

Includes: Infrared thermometer with contact thermometer capabilities, FlukeView® Forms software (568 only), USB cable (568 only), K-type thermocouple bead probe, hard carrying case, quick start guide, and users manual.



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