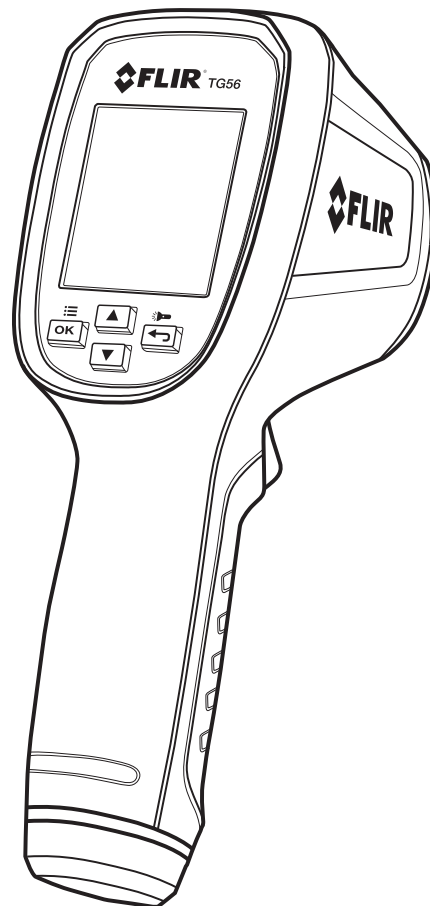
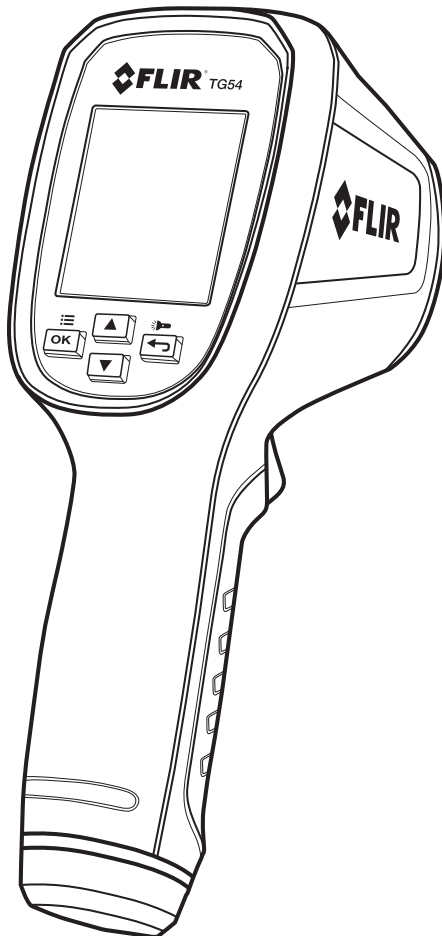

FLIR IR Spot Thermometers


TG54 IR Spot Thermometer

TG56 IR Spot Thermometer with Thermocouple



USER GUIDE LOCATION: The detailed User Guide is supplied in the product packaging and is also available at the Resources link on the flir.com/test website. Please read the detailed user guide before using the meter.

Quick Steps

- Review the meter description in Fig. 1.
- Confirm that batteries are installed in the meter handle. Twist off the end cap to access batteries.
- Pull the trigger for approx. 1 second to switch the meter on and begin scanning surface temperatures.
- Use the Laser pointer as a target guide.
- View the temperature readings on the display.
- Release the trigger and the display will hold the current reading for several seconds before switching off.
- Use the arrow buttons to step to the **three-reading mode** where the three most recent readings are shown preceded by circled numbers. This icon  is shown on the display (top) in this mode.
- Refer to the display descriptions in Fig. 2 and the Distance to Spot ratio illustrations in Figs. 3 & 4.

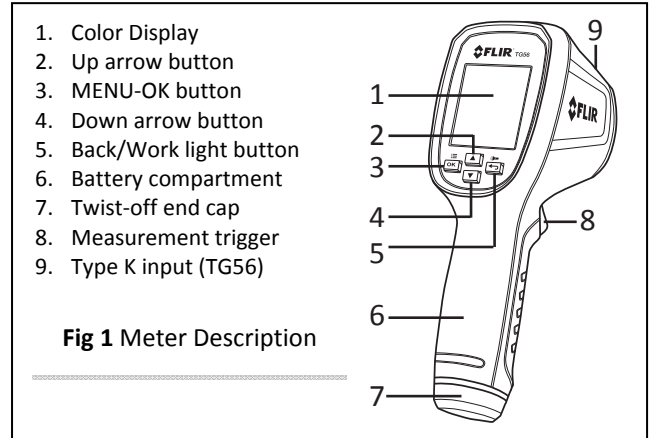


Fig 1 Meter Description

Main Display Overview (Fig. 2)

1. Laser pointer active
2. Trigger pulled (scan mode)
3. Mode icon area (three-reading mode shown)
4. Alarm icon area (dual alarm mode shown)
5. Work light active
6. Battery status
7. Emissivity setting (textured preset icon shown)
8. Current reading icon
9. Second most recent reading icon
10. Third most recent reading icon
11. Temperature unit
12. Current reading digits
13. Second most recent reading digits
14. Third most recent reading digits

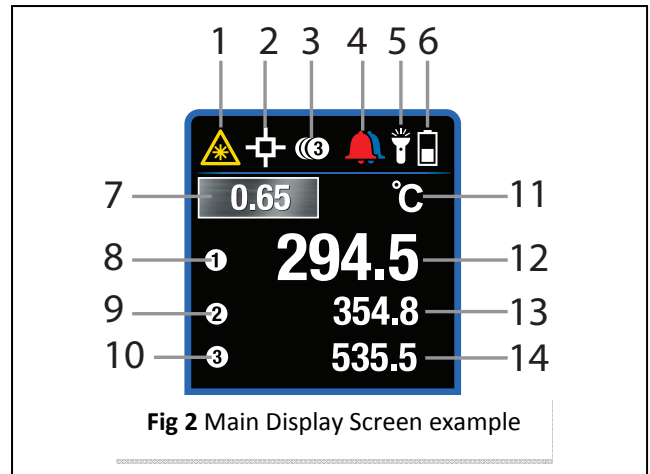


Fig 2 Main Display Screen example

Other display icons, not pictured here, are discussed in the User Manual

Distance to Spot Ratio

Fig 3 - Distance to Spot Ratio 30:1 (TG56)

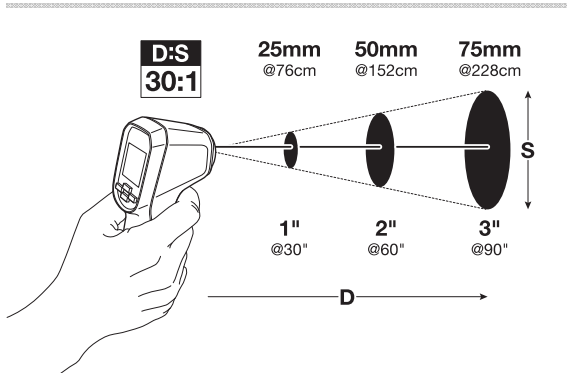
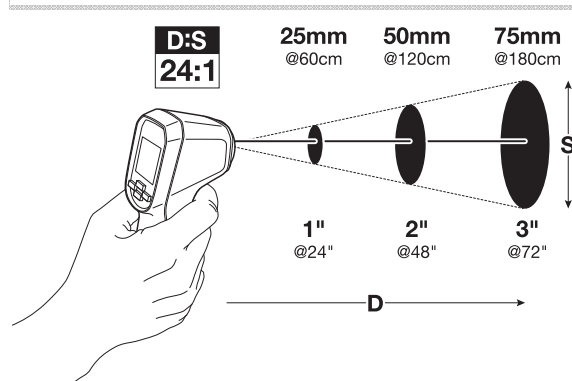


Fig 4 - Distance to Spot Ratio 24:1 (TG54)



Programming Menu








- For Fig. 5 Programming menu refer to the Table in Fig. 6.
- Pull the meter trigger for approx. 1 second to power the meter.
- Press and hold Menu  to enter the Programming Menu.
- Use the arrow buttons to scroll through the menu pages.
- There are four types of menu items:
 - a. Items toggled by Menu button: Laser ON/OFF & Units °C/°F
 - b. Items set by repeated Menu presses: Display mode  & APO 
 - c. Items viewed by pressing Menu: Info  and Help 
 - d. Items opened by pressing Menu for editing: Emissivity  & Alarm 

Fig 5 – Programming Menu

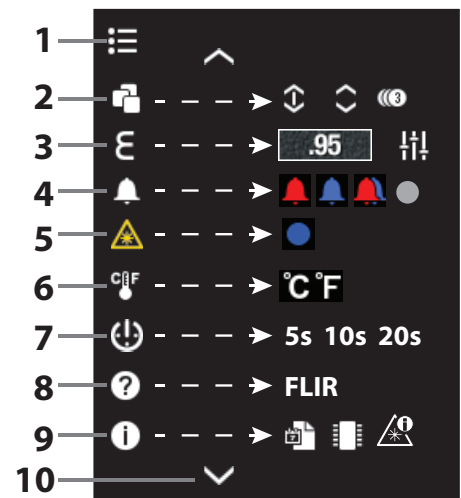



















Fig 6 – Programming Menu Editing (refer to Fig. 5 for the items below)

Item	Icon	Programming Menu Parameter Descriptions
1		Programming menu icon
2		Display Modes: MIN-MAX  , Average  , and Three-Reading  ; Press Menu to select the mode*
3		Emissivity settings: Presets (0.95, 0.85, 0.75, & 0.65) and Custom mode options; Press Menu to access sub-menus
4		Alarm Modes: OFF (grey circle), Low (blue), High (red), or Low/High (red/blue); Press Menu to access sub-menus
5		Laser Pointer: ON/OFF; Press Menu to toggle setting
6		Temperature Units: °C/°F; Press Menu to toggle setting
7		Auto Power OFF (APO) options: 5, 10, and 20 seconds; Press Menu to select an APO time
8		Help screen: Press Menu to view FLIR Contact and other useful information
9		Info Screen: Press Menu to view Firmware version, Calibration date, and Laser information
10		Page down and up prompts. Use arrow buttons to scroll




*When a thermocouple is connected to the TG56, the display mode menu shows the icon  and all other modes are disabled




Alarm Modes




High , Low , and High + Low  alarms are set in the Programming menu. Once set, when an alarm condition occurs the meter's display digits change from white to blue for a Low alarm or from white to red for a High alarm.

Display Modes

The display modes are selected in the Programming menu (item 2, in Fig. 6) but can also be change using the arrow buttons from the main operation mode (shortcut). The Displays modes are:

MIN-MAX:  Lowest and highest readings are displayed next to their respective icons: MIN  MAX 

Average:  Average reading is displayed next to its icon  along with the MAX minus MIN delta  value

Three-reading mode:  The three most recent readings are displayed. The most recent reading is shown on the larger display digits; the 2nd and 3rd most recent readings are displayed next to the  and  icons, respectively. Note that the color of the reading digits (determined by alarm condition) is maintained as the readings moved down the stack.

Thermocouple input (TG56)

The thermocouple jack at the top of the TG56 accepts a Type K thermocouple. When inserted, the meter displays the thermocouple icon at the top and another thermocouple icon next to the thermocouple temperature reading.

IMPORTANT NOTES: The supplied thermocouple is not rated for the entire measurement range of the meter. The thermocouple can be damaged if its temperature range is exceeded. Always use a thermocouple rated for the intended application. Please refer to the User Manual for detailed specifications. In addition, the accuracy of the thermocouple adds to the accuracy specification of the meter.



Certificate of Conformity and ISO-9001 Quality Management System

FLIR Commercial Systems, Inc., an ISO 9001:2008 certified company, hereby certify that our instruments meet or exceed the specifications stated in the user manuals.

This instrument was produced under the stringent guidelines of FLIR Commercial System's certified ISO-9001 Quality Management System from design to delivery. All instruments are calibrated and inspected to meet the stated specifications.

FLIR Commercial Systems, Inc. inspects its incoming shipments using an approved sampling plan with an Acceptable Quality Level (AQL). All incoming inspections are performed using test equipment that is traceable to National Standards. Our ISO-9001 Quality Management System extends to aftermarket support where tested quality procedures are applied to customer support, service, calibration and repair processes.

This instrument will provide years of reliable service when used in accordance with the instructions provided in the User Guide. To have this device certified please contact your local service center.

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