

# Fluke 572, 574 and 574-NI Infrared Thermometers

Non-contact temperature measurement



## **Technical Data**

# When the job demands precision and accuracy

Broad temperature range, superior optics and the advanced extra-bright three-dot laser sighting system make Fluke 570 series thermometers the most advanced portable thermometers in the industry.



**Preventive Maintenance** 



Electrical

## 574-NI Nonincendive Model

When safety is a concern and data logging and downloading are required, the Fluke 574 Nonincendive (NI) model thermometer is the product to choose. It has the same great features as the standard 574 model thermometers with the extra confidence of a Factory Mutual approval for use in hazardous environments\*. The Fluke 574–NI thermometer,



does not to release enough electrical or thermal energy to ignite flammable gases or vapors under normal operational and environmental conditions.

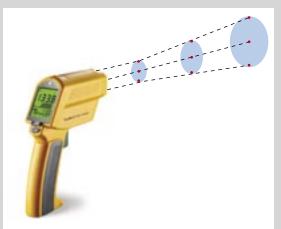
\*See specification table for details.



## **Advanced Display**

- 100-point onboard temperature data logging capability
- 30 preset common material emissivity values
- Adjustable emissivity values (0.01 increments)
- Customizable log names, alarms, and emissivity

## **Advanced Sighting**

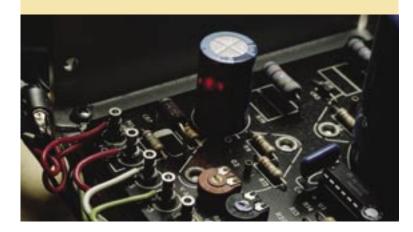


Accurate measurements depend in part on accurately sighting a target. Fluke 570 series thermometers are the only thermometers with a sighting system designed to precisely track the infrared path as seen by the sensors. This enables the advanced coaxial three-dot laser sighting to accurately show both the center and the edges of the spot being measured, regardless of the thermometer's distance from the target.

This laser sighting also appears twice as bright to the human eye as normal lasers (while maintaining the same safety rating as less bright lasers), making precise sighting easier in a variety of lighting conditions and distances.

### **Close Focus Option**

The Close Focus (CF) option lets you accurately measure very small areas at the focus point – where the IR beam narrows. Paired with the advanced coaxial laser sighting system, extremely small objects 6 mm (0.24 in) at 300 mm (11.4 in) can be easily measured. Ideal for electrical maintenance and refrigeration troubleshooting.

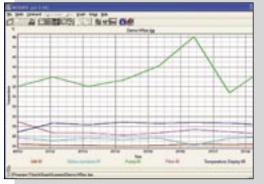






### Software for Condition Monitoring and Process Control

Visualize, systematically maintain and analyze temperature data using Windows<sup>®</sup> compatible software and a Fluke 574 or 574-NI IR thermometer.



Easily see temperature trends and potential equipment problems by graphing data accumulated with the unit's data logging feature.

The software

makes it easy to error-proof

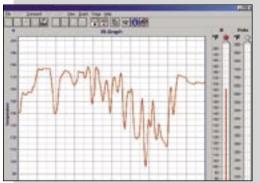
inspection routes

by giving names,

alarm points and emissivities to

locations.

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The 574 can be used to monitor, graph, and record real-time temperature changes with the software.

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The software provides a convenient way to export temperature data files in a format that can be used by programs such as Access<sup>®</sup>, Excel<sup>®</sup>, and condition monitoring programs.

#### Graph

- Visually review data and spot trends instantly through graphs
- Simultaneously graph results while continuously monitoring temperatures
- Quickly compare temperatures of up to five log locations for trends or anomalies
- Display infrared and/or probe temperature trends over time
- View infrared and probe values continuously on thermometer sidebar

#### Data log

- Create recognizable names for inspection locations
- Track both infrared and probe temperature trends
- Tailor high/low alarms per individual inspection location
- View min, max, and average infrared and probe temperatures
- Create and customize emissivity tables for each inspection location
- Store up to 10,000 data points in a file

## Reporting and documentation

- Customize report views and printing formats
- Generate time and datestamp printouts for accurate records
- Export data as text files for integration with Maintenance, Repair and Operations (MRO) systems and other database programs



## Specifications

Temperature range  -30 °C to 900 °C (-25 °T to 1600 °F)    Accuracy  ±0.75 % of reading or ±1 °C (±2 °F), whichever is greater (assumes ambient operating temperature of 23 °C (73 °F)    Response time  250 mSec (95 % of reading)    Spectral response  8 -14 microns, thermopile detector    Adjustable emissivity (from 0.1 to 1.0 by 0.01)  •  •    Ambient operating temperature  0 °C to 50 °C (32 °F to 122 °F)  •    Relative humidity  10 to 90 % at 30 °C (86 °F) non-condensing  Storage temperature  -20 °C to 50 °C (-25 °F to 122 °F)    Weight  480 g (1 lb 6 oz)  Power  2 AA batteries  2 AA batteries/ AC adapter  AC adapter    Power supply, RS232  Computer Cable, 1.5 m (60 in), K thermocouple probe  -  •  •    Laser Class II  3-dot laser sighting (meets IEC Class 2 and FDA Class II requirements)  19 mm (0.76 in)  19 mm (0.76 in)    Minimum measurement diameter  •  •  •  •    Differential and average temperature  •  •  •  •    Maximum and minimum temperature  •  •  •  •  •    Differential and average temperature  •  •  •  •  • <th>Specifications</th> <th>Fluke 572</th> <th>Fluke 574</th> <th>Fluke 574-NI</th>	Specifications	Fluke 572	Fluke 574	Fluke 574-NI					
(assumes ambient operating temperature of 23 °C (73 °F))Repeatability $\leq \pm 0.5$ of reading or $s \pm 1$ °C ( $\pm 2$ °F), whichever is greaterResponse time250 mSec (95% of reading)Spectral response8 -14 microns, thermopile detectorAdjustable emissivity (from 0.1 to 1.0 by 0.01)•Ambient operating temperature0 °C to 50 °C (32 °F to 122 °F)Relative humidity10 to 90% at 30 °C (86 °F) non-condensingStorage temperature-20 °C to 50 °C (-25 °F to 122 °F)Weight480 g(1 lb 6 oz)Power2 AA batteriesAG adapterAC adapterPower supply, RS232 Computer Cable, 1.5 m (60 in), K thermocouple probe-Laser Class II3-dot laser sighting (meets IEC Class 2 and PDA Class II requirements)Distance-to-Spot (D:S)60:1 (50:1 with Close Focus option)Maximum and minimum temperature•0•Differential and average temperature-0•100-points-data logging-0.100-points-data logging-0.11 °C of reading up to 900 °C (0.2 °F up to 999.8 °F)Data output: RS-322 or Tipod mount-110 Typer degree (°C or °F)-110 Typer degree (°C or °F)-111 Typer degree (°C or °F)-112 Class II Topod zon and zon provide zon pr	Temperature range								
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Adjustable emissivity (from 0.1 to 1.0 by 0.01)  •  •  •    Ambient operating temperature  0 °C to 50 °C (32 °F to 122 °F )  •    Relative humidity  10 to 90% at 30 °C (86 °F) non-condensing    Storage temperature  -20 °C to 50 °C (-25 °F to 122 °F )    Weight  480 g (1 b 6 oz)    Power  2 AA batteries/ AC adapter    Power supply, R5232 Computer Cable, 1.5 m (60 in), K thermocouple probe  -    Laser Class II  3-dot laser sighting (meets IEC Class 2 and FDA Class II requirements)    Distance-to-Spot (D:S)  60:1 (50:1 with Close Focus Option)  60:1    Maximum and minimum temperature  •  •    Audible/visible high/low alarm  •  •    Differential and average temperature  •  •    Audible/visible high/low alarm  •  •    Display nold  •  •  •    LCD backlit  •  •  •    Temperature display  •  •  •    Display resolution  0.1 °C of reading up to 900 °C (0.2 °F up to 999.8 °F)  •    Data output: RS-232 or 1 mV per degree (°C or °F)  -  •  •    Display resolution </td <td>Response time</td> <td colspan="7"></td>	Response time								
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Storage temperature  -20 °C to 50 °C (-25 °F to 122 °F)    Weight  480 g (1 lb 6 oz)    Power  2 AA batteries/ AC adapter  2 AA batteries/ AC adapter  2 AA batteries/ AC adapter    Power supply, RS232 Computer Cable, 1.5 m (60 in), K thermocouple probe  –  •  •    Laser Class II  3-dot laser sighting (meets IEC Class 2 and TDA Class II requirements)  60:1  60:1    Distance-to-Spot (D:S)  60:1 (50:1 with Close Focus Option)  60:1  19 mm (0.76 in)    Maimum measurement diameter  19 mm (0.76 in)  19 mm (0.76 in)  19 mm (0.76 in)    Radiple/visible high/low alarm  •  •  •    Differential and average temperature  •  •  •    Bar graph display  •  •  •  •    100-points-data logging  –  •  •  •    Display hold  •  •  •  •  •    Display resolution  0.1 °C of reading up to 900 °C (0.2 °F up to 999.8 °F)  •  •  •    Data graphing software (Windows* NT, 2000, XP compatible)  –  •  •  •  •    In W per degrer (°C or °F)  – <td< td=""><td>Ambient operating temperature</td><td colspan="6">0 °C to 50 °C (32 °F to 122 °F )</td></td<>	Ambient operating temperature	0 °C to 50 °C (32 °F to 122 °F )							
Weight  480 g (1 lb 6 oz)    Power  2 AA batteries  2 AA batteries/ AC adapter  2 AA batteries/ AC adapter    Power supply, RS232 Computer Cable, 1.5 m (60 in), K thermocouple probe  -  •  •    Laser Class II  3-dot laser sighting (meets EEC Class 2 and FDA Class II requirements)  60:1    Distance-to-Spot (D:S)  60:1 (50:1 with Close Focus Option)  60:1    Maximum and minimum temperature  •  •    Audible/visible high/low alarm  •  •    Differential and average temperature  •  •    Bar graph display  •  •    100-points-data logging  -  •    Display hold  •  •    LCD backlit  •  •    Undows* NT, 2000, XP compatible)  -  •    Data argraphing software (Windows* NT, 2000, XP compatible)  -  •    The S74-PN has a factory Mutual Nonincendive rating. The rating from this USA organization reads: "Class I, Division 2, Groups A, B, C, D; Class I, Zone 2 IIC; T4 Ta=50 °C when used with 1.5 V alkaline batteries."  -  •    WARNING: Battery changes and RS-232 connection in non-hazardous locations only.  -  -  •	Relative humidity	10 to 90% at 30 °C (86 °F) non-condensing							
Power  2 AA batteries  2 AA batteries/ AC adapter  2 AA batteries/ AC adapter    Power supply, RS232 Computer Cable, 1.5 m (60 in), K thermocouple probe  –  •  •    Laser Class II  3-dot laser sighting (meets IEC Class 2 and PDA Class II requirements)  60:1    Distance-to-Spot (D:S)  60:1 (50:1 with Close Focus Option)  60:1    Maximum and minimum temperature  19 mm (0.76 in) (6 mm (0.24 in) with Close Focus option)  19 mm (0.76 in)    Maximum and minimum temperature  •  •    Audible/visible high/low alarm  •  •    Differential and average temperature  -  •    Bar graph display  •  •    LCD backlit  •  •    Temperature display  0.1 °C or °F selectable  •    Display resolution  0.1 °C of reading up to 900 °C (0.2 °F up to 999.8 °F)  •    Data graphing software  •  •  •    (Windows* NT, 2000, XP compatible)  –  •  •    Data output: RS-232 or 1 mV per degree (°C or °F)  –  •  •    Hard carrying case  •  •  •  •    Tripod mount  1/4-20 UNC	Storage temperature								
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Differential and average temperature-•Bar graph display•••Bar graph display•••100-points-data logging-••Display hold•••LCD backlit•••Temperature display°C or °F selectable•Display resolution0.1 °C of reading up to 900 °C (0.2 °F up to 999.8 °F)Data graphing software-•(Windows* NT, 2000, XP compatible)-•Data output: RS-232 or 1 mV per degree (°C or °F)-•Hard carrying case•••Tripod mount1/4-20 UNC•The 574-NI has a factory Mutual Nonincendive rating. The rating from this USA organization reads: "Class I, Division 2, Groups A, B, C, D; Class I, Zone 2 IIC; T4 Ta=50 °C when used with 1.5 V alkaline batteries."WARNING: Battery changes and RS-232 connection in non-hazardous locations only•	Maximum and minimum temperature	•	•	•					
Bar graph display••100-points-data logging-•Display hold••LCD backlit••Temperature display°C or °F selectableDisplay resolution0.1 °C of reading up to 900 °C (0.2 °F up to 999.8 °F)Data graphing software (Windows* NT, 2000, XP compatible)-Data output: RS-232 or 1 mV per degree (°C or °F)-Hard carrying case•Tripod mount1/4-20 UNCThe 574-NI has a factory Mutual Nonincendive rating. The rating from this USA organization reads: "Class I, Division 2, Groups A, B, C, D; Class I, Zone 2 IIC; T4 Ta=50 °C when used with 1.5 V alkaline batteries."WARNING: Battery changes and RS-232 connection in non-hazardous locations only	Audible/visible high/low alarm	•	•	•					
100-points-data logging  -  •    Display hold  •  •    LCD backlit  •  •    Temperature display  °C or °F selectable  •    Display resolution  0.1 °C of reading up to 900 °C (0.2 °F up to 999.8 °F)  •    Data graphing software (Windows* NT, 2000, XP compatible)  -  •    Data output: RS-232 or 1 mV per degree (°C or °F)  -  •    Hard carrying case  •  •  •    Tripod mount  1/4-20 UNC  •  •    The 574-NI has a factory Mutual Nonincendive rating. The rating from this USA organization reads: "Class I, Division 2, Groups A, B, C, D; Class I, Zone 2 IIC; T4 Ta=50 °C when used with 1.5 V alkaline batteries."  -  •    WARNING: Battery changes and RS-232 connection in non-hazardous locations only.  -  -  •	Differential and average temperature	_	•	•					
Display hold  •  •    LCD backlit  •  •    Temperature display  °C or °F selectable    Display resolution  0.1 °C of reading up to 900 °C (0.2 °F up to 999.8 °F)    Data graphing software (Windows* NT, 2000, XP compatible)  –  •    Data output: RS-232 or 1 mV per degree (°C or °F)  –  •    Hard carrying case  •  •    Tripod mount  1/4-20 UNC    The 574-NI has a factory Mutual Nonincendive rating. The rating from this USA organization reads: "Class I, Division 2, Groups A, B, C, D; Class I, Zone 2 IIC; T4 Ta=50 °C when used with 1.5 V alkaline batteries."  –  –    WARNING: Battery changes and RS-232 connection in non-hazardous locations only.  –  –  •	Bar graph display	•	•	•					
LCD backlit••Temperature display°C or °F selectableDisplay resolution0.1 °C of reading up to 900 °C (0.2 °F up to 999.8 °F)Data graphing software (Windows* NT, 2000, XP compatible)–Data output: RS-232 or 1 mV per degree (°C or °F)–Hard carrying case•Tripod mount1/4-20 UNCThe 574-NI has a factory Mutual Nonincendive rating. The rating from this USA organization reads: "Class I, Zone 2 IIC; T4 Ta=50 °C when used with 1.5 V alkaline batteries."–WARNING: Battery changes and RS-232 connection in non-hazardous locations only.–	100-points-data logging	_	•	•					
Temperature display°C or °F selectableDisplay resolution0.1 °C of reading up to 900 °C (0.2 °F up to 999.8 °F)Data graphing software (Windows* NT, 2000, XP compatible)–Data output: RS-232 or 1 mV per degree (°C or °F)–Hard carrying case•Tripod mount1/4-20 UNCThe 574-NI has a factory Mutual Nonincendive rating. The rating from this USA organization reads: "Class I, Division 2, Groups A, B, C, D; Class I, Zone 2 IIC; T4 Ta=50 °C when used with 1.5 V alkaline batteries."WARNING: Battery changes and RS-232 connection in non-hazardous locations only.	Display hold	•	•	•					
Display resolution  0.1 °C of reading up to 900 °C (0.2 °F up to 999.8 °F)    Data graphing software (Windows* NT, 2000, XP compatible)  –  •    Data output: RS-232 or 1 mV per degree (°C or °F)  –  •    Hard carrying case  •  •    Tripod mount  1/4-20 UNC    The 574-NI has a factory Mutual Nonincendive rating. The rating from this USA organization reads: "Class I, Division 2, Groups A, B, C, D; Class I, Zone 2 IIC; T4 Ta=50 °C when used with 1.5 V alkaline batteries."  –  •    WARNING: Battery changes and RS-232 connection in non-hazardous locations only.  –  •	LCD backlit	•	•	•					
Data graphing software (Windows* NT, 2000, XP compatible)  -  •    Data output: RS-232 or 1 mV per degree (°C or °F)  -  •    Hard carrying case  •  •    Tripod mount  1/4-20 UNC    The 574-NI has a factory Mutual Nonincendive rating. The rating from this USA organization reads: "Class I, Division 2, Groups A, B, C, D; Class I, Zone 2 IIC; T4 Ta=50 °C when used with 1.5 V alkaline batteries."  -  •    WARNING: Battery changes and RS-232 connection in non-hazardous locations only.  -  •	Temperature display	°C or °F selectable							
(Windows* NT, 2000, XP compatible)	Display resolution	0.1 °C of reading up to 900 °C (0.2 °F up to 999.8 °F)							
1 mV per degree (°C or °F)  -  •    Hard carrying case  •  •    Tripod mount  1/4-20 UNC    The 574-NI has a factory Mutual Nonincendive rating. The rating from this USA organization reads: "Class I, Division 2, Groups A, B, C, D; Class I, Zone 2 IIC; T4 Ta=50 °C when used with 1.5 V alkaline batteries."  -  -    WARNING: Battery changes and RS-232 connection in non-hazardous locations only.  -  -  •	Data graphing software (Windows <sup>®</sup> NT, 2000, XP compatible)	_	•	•					
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locations only.	Nonincendive rating. The rating from this USA organization reads: "Class I, Division 2, Groups A, B, C, D; Class I, Zone 2 IIC; T4 Ta=50 °C when used with 1.5 V alkaline batteries." WARNING: Battery changes and	_	_	•					
		•	•	•					

\* Warranty duration may vary by country.

### **Ordering Information**

## Options

- (all models)
- Close focus\*
- NIST calibration certification
- \* Not available with 574-NI

#### Options

(574 and 574-NI)

• mV/degree output cable

### Accessories

#### (all models)

• Padded pouch with belt clip

#### Accessories

(574 and 574-NI)

- PC software
- RS232 computer cable
- Plug-in power supply
- Thermocouple K probe

(Power supply and cable not approved by FM for use in hazardous locations)



Included with the Fluke 572 and 574 units:

- User's guide on CD
- Hardshell carrying case.

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Authorized Distributor

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