



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



**FLUKE®**

# 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

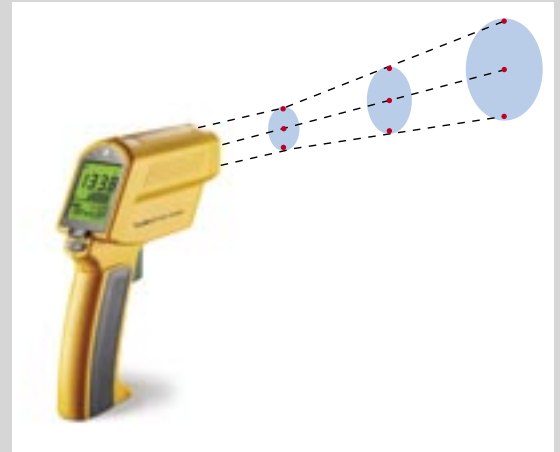
When safety is a concern and downloading are required, the Fluke 574 Nonincendive (NI) model thermometer is the product to choose. It has the same great features as the standard 574 model thermometers with the extra confidence of a Factory Mutual approval for use in hazardous environments\*.

The Fluke 574-NI thermometer, does not release enough electrical or thermal energy to ignite flammable gases or vapors under normal operational and environmental conditions.

*\*See specification table for details.*



## 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.



## 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

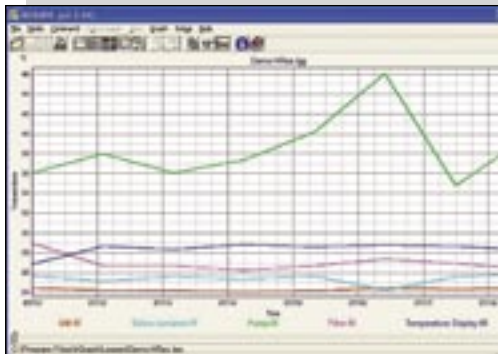
## Close Focus Option

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

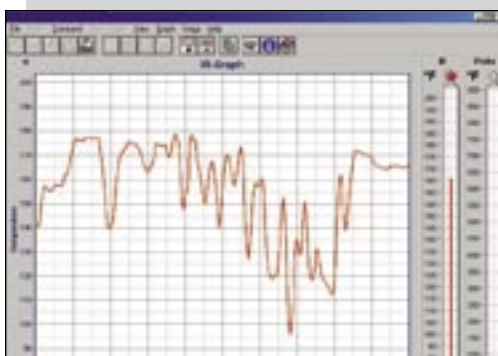
Visualize, systematically maintain and analyze temperature data using Windows® compatible software and a Fluke 574 or 574-NI IR thermometer.



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

Name	Date	Time	Temp 1	Temp 2	Temp 3	Temp 4	Temp 5	Temp 6	Temp 7	Temp 8	Temp 9	Temp 10	Temp 11	Temp 12	Temp 13	Temp 14	Temp 15	Temp 16	Temp 17	Temp 18	Temp 19	Temp 20	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

The software makes it easy to error-proof inspection routes by giving names, alarm points and emissivities to locations.



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

The software provides a convenient way to export temperature data files in a format that can be used by programs such as Access®, Excel®, 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 date-stamp printouts for accurate records
- Export data as text files for integration with Maintenance, Repair and Operations (MRO) systems and other database programs

## Specifications

Specifications	Fluke 572	Fluke 574	Fluke 574-NI
Temperature range	-30 °C to 900 °C (-25 °F 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))		
Repeatability	≤ ±0.5 of reading or ≤ ±1 °C (±2 °F), whichever is greater		
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	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 FDA Class II requirements)		
Distance-to-Spot (D:S)	60:1 (50:1 with Close Focus Option)		60:1
Minimum measurement diameter	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	•	•	•
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."	–	–	•
<b>WARNING:</b> Battery changes and RS-232 connection in non-hazardous locations only.			
Warranty 2 Years, Conditional*	•	•	•

\* 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.

**Fluke.** Keeping your world up and running.

### Fluke Corporation

PO Box 9090, Everett, WA USA 98206

Fluke Europe B.V.

PO Box 1186, 5602 BD

Eindhoven, The Netherlands

For more information call:

In the U.S.A. (800) 443-5853 or

Fax (425) 446-5116

In Europe/M-East/Africa (31 40) 2 675 200 or

Fax (31 40) 2 675 222

In Canada (800) 36-FLUKE or

Fax (905) 890-6866

From other countries +1 (425) 446-5500 or

Fax +1 (425) 446-5116

Web access: <http://www.fluke.com/>

©2005 Fluke Corporation. All rights reserved.

Printed in U.S.A. 4/2005 2437646 D-US-N Rev A