

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

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."	–	–	•
WARNING: 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.