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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

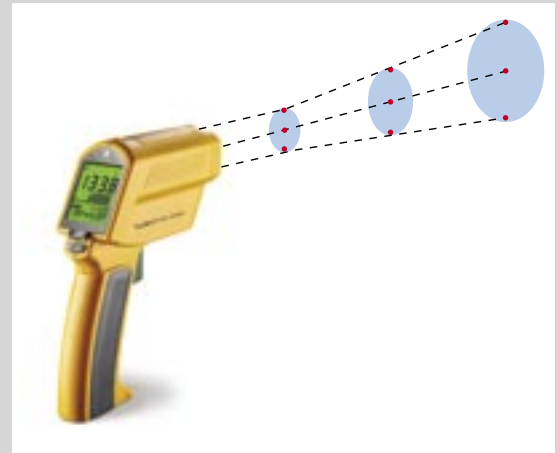
When safety is a concern and data logging and downloading are required, the Fluke 574 Nonincendive (NI) model thermometer is the product to choose. It has the same great features as the standard 574 model thermometers with the extra confidence of a Factory Mutual approval for use in hazardous environments*.

The Fluke 574-NI thermometer, does not 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

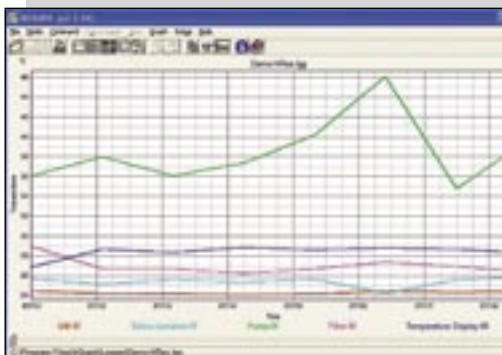
Close Focus Option

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.

Log Book									
Time	Location	Temp	Probe	Unit	Remarks	Time	Location	Temp	Probe
10:00	Motor oil	100.0	574	100.0	OK	10:00	Motor oil	100.0	574
10:05	Transformer	105.0	574	105.0	OK	10:05	Transformer	105.0	574
10:10	Generator	110.0	574	110.0	OK	10:10	Generator	110.0	574
10:15	Boiler	115.0	574	115.0	OK	10:15	Boiler	115.0	574
10:20	Condenser	120.0	574	120.0	OK	10:20	Condenser	120.0	574
10:25	Exhaust	125.0	574	125.0	OK	10:25	Exhaust	125.0	574
10:30	Flue gas	130.0	574	130.0	OK	10:30	Flue gas	130.0	574
10:35	Stack gas	135.0	574	135.0	OK	10:35	Stack gas	135.0	574
10:40	Boiler room	140.0	574	140.0	OK	10:40	Boiler room	140.0	574
10:45	Control room	145.0	574	145.0	OK	10:45	Control room	145.0	574
10:50	Generator room	150.0	574	150.0	OK	10:50	Generator room	150.0	574
10:55	Transformer room	155.0	574	155.0	OK	10:55	Transformer room	155.0	574
11:00	Boiler room	160.0	574	160.0	OK	11:00	Boiler room	160.0	574
11:05	Control room	165.0	574	165.0	OK	11:05	Control room	165.0	574
11:10	Generator room	170.0	574	170.0	OK	11:10	Generator room	170.0	574
11:15	Transformer room	175.0	574	175.0	OK	11:15	Transformer room	175.0	574
11:20	Boiler room	180.0	574	180.0	OK	11:20	Boiler room	180.0	574
11:25	Control room	185.0	574	185.0	OK	11:25	Control room	185.0	574
11:30	Generator room	190.0	574	190.0	OK	11:30	Generator room	190.0	574
11:35	Transformer room	195.0	574	195.0	OK	11:35	Transformer room	195.0	574
11:40	Boiler room	200.0	574	200.0	OK	11:40	Boiler room	200.0	574
11:45	Control room	205.0	574	205.0	OK	11:45	Control room	205.0	574
11:50	Generator room	210.0	574	210.0	OK	11:50	Generator room	210.0	574
11:55	Transformer room	215.0	574	215.0	OK	11:55	Transformer room	215.0	574
12:00	Boiler room	220.0	574	220.0	OK	12:00	Boiler room	220.0	574
12:05	Control room	225.0	574	225.0	OK	12:05	Control room	225.0	574
12:10	Generator room	230.0	574	230.0	OK	12:10	Generator room	230.0	574
12:15	Transformer room	235.0	574	235.0	OK	12:15	Transformer room	235.0	574
12:20	Boiler room	240.0	574	240.0	OK	12:20	Boiler room	240.0	574
12:25	Control room	245.0	574	245.0	OK	12:25	Control room	245.0	574
12:30	Generator room	250.0	574	250.0	OK	12:30	Generator room	250.0	574
12:35	Transformer room	255.0	574	255.0	OK	12:35	Transformer room	255.0	574
12:40	Boiler room	260.0	574	260.0	OK	12:40	Boiler room	260.0	574
12:45	Control room	265.0	574	265.0	OK	12:45	Control room	265.0	574
12:50	Generator room	270.0	574	270.0	OK	12:50	Generator room	270.0	574
12:55	Transformer room	275.0	574	275.0	OK	12:55	Transformer room	275.0	574
13:00	Boiler room	280.0	574	280.0	OK	13:00	Boiler room	280.0	574
13:05	Control room	285.0	574	285.0	OK	13:05	Control room	285.0	574
13:10	Generator room	290.0	574	290.0	OK	13:10	Generator room	290.0	574
13:15	Transformer room	295.0	574	295.0	OK	13:15	Transformer room	295.0	574
13:20	Boiler room	300.0	574	300.0	OK	13:20	Boiler room	300.0	574
13:25	Control room	305.0	574	305.0	OK	13:25	Control room	305.0	574
13:30	Generator room	310.0	574	310.0	OK	13:30	Generator room	310.0	574
13:35	Transformer room	315.0	574	315.0	OK	13:35	Transformer room	315.0	574
13:40	Boiler room	320.0	574	320.0	OK	13:40	Boiler room	320.0	574
13:45	Control room	325.0	574	325.0	OK	13:45	Control room	325.0	574
13:50	Generator room	330.0	574	330.0	OK	13:50	Generator room	330.0	574
13:55	Transformer room	335.0	574	335.0	OK	13:55	Transformer room	335.0	574
14:00	Boiler room	340.0	574	340.0	OK	14:00	Boiler room	340.0	574
14:05	Control room	345.0	574	345.0	OK	14:05	Control room	345.0	574
14:10	Generator room	350.0	574	350.0	OK	14:10	Generator room	350.0	574
14:15	Transformer room	355.0	574	355.0	OK	14:15	Transformer room	355.0	574
14:20	Boiler room	360.0	574	360.0	OK	14:20	Boiler room	360.0	574
14:25	Control room	365.0	574	365.0	OK	14:25	Control room	365.0	574
14:30	Generator room	370.0	574	370.0	OK	14:30	Generator room	370.0	574
14:35	Transformer room	375.0	574	375.0	OK	14:35	Transformer room	375.0	574
14:40	Boiler room	380.0	574	380.0	OK	14:40	Boiler room	380.0	574
14:45	Control room	385.0	574	385.0	OK	14:45	Control room	385.0	574
14:50	Generator room	390.0	574	390.0	OK	14:50	Generator room	390.0	574
14:55	Transformer room	395.0	574	395.0	OK	14:55	Transformer room	395.0	574
15:00	Boiler room	400.0	574	400.0	OK	15:00	Boiler room	400.0	574
15:05	Control room	405.0	574	405.0	OK	15:05	Control room	405.0	574
15:10	Generator room	410.0	574	410.0	OK	15:10	Generator room	410.0	574
15:15	Transformer room	415.0	574	415.0	OK	15:15	Transformer room	415.0	574
15:20	Boiler room	420.0	574	420.0	OK	15:20	Boiler room	420.0	574
15:25	Control room	425.0	574	425.0	OK	15:25	Control room	425.0	574
15:30	Generator room	430.0	574	430.0	OK	15:30	Generator room	430.0	574
15:35	Transformer room	435.0	574	435.0	OK	15:35	Transformer room	435.0	574
15:40	Boiler room	440.0	574	440.0	OK	15:40	Boiler room	440.0	574
15:45	Control room	445.0	574	445.0	OK	15:45	Control room	445.0	574
15:50	Generator room	450.0	574	450.0	OK	15:50	Generator room	450.0	574
15:55	Transformer room	455.0	574	455.0	OK	15:55	Transformer room	455.0	574
16:00	Boiler room	460.0	574	460.0	OK	16:00	Boiler room	460.0	574
16:05	Control room	465.0	574	465.0	OK	16:05	Control room	465.0	574
16:10	Generator room	470.0	574	470.0	OK	16:10	Generator room	470.0	574
16:15	Transformer room	475.0	574	475.0	OK	16:15	Transformer room	475.0	574
16:20	Boiler room	480.0	574	480.0	OK	16:20	Boiler room	480.0	574
16:25	Control room	485.0	574	485.0	OK	16:25	Control room	485.0	574
16:30	Generator room	490.0	574	490.0	OK	16:30	Generator room	490.0	574
16:35	Transformer room	495.0	574	495.0	OK	16:35	Transformer room	495.0	574
16:40	Boiler room	500.0	574	500.0	OK	16:40	Boiler room	500.0	574
16:45	Control room	505.0	574	505.0	OK	16:45	Control room	505.0	574
16:50	Generator room	510.0	574	510.0	OK	16:50	Generator room	510.0	574
16:55	Transformer room	515.0	574	515.0	OK	16:55	Transformer room	515.0	574
17:00	Boiler room	520.0	574	520.0	OK	17:00	Boiler room	520.0	574
17:05	Control room	525.0	574	525.0	OK	17:05	Control room	525.0	574
17:10	Generator room	530.0	574	530.0	OK	17:10	Generator room	530.0	574
17:15	Transformer room	535.0	574	535.0	OK	17:15	Transformer room	535.0	574
17:20	Boiler room	540.0	574	540.0	OK	17:20	Boiler room	540.0	574
17:25	Control room	545.0	574	545.0	OK	17:25	Control room	545.0	574
17:30	Generator room	550.0	574	550.0	OK	17:30	Generator room	550.0	574
17:35	Transformer room	555.0	574	555.0	OK	17:35	Transformer room	555.0	574
17:40	Boiler room	560.0	574	560.0	OK	17:40	Boiler room	560.0	574
17:45	Control room	565.0	574	565.0	OK	17:45	Control room	565.0	574
17:50	Generator room	570.0	574	570.0	OK	17:50	Generator room	570.0	574
17:55	Transformer room	575.0	574	575.0	OK	17:55	Transformer room	575.0	574
18:00	Boiler room	580.0	574	580.0	OK	18:00	Boiler room	580.0	574
18:05	Control room	585.0	574	585.0	OK	18:05	Control room	585.0	574
18:10	Generator room	590.0	574	590.0	OK	18:10	Generator room	590.0	574
18:15	Transformer room	595.0	574	595.0	OK	18:15	Transformer room	595.0	574
18:20	Boiler room	600.0	574	600.0	OK	18:20	Boiler room	600.0	574
18:25	Control room	605.0	574	605.0	OK	18:25	Control room	605.0	574
18:30	Generator room	610.0	574	610.0	OK	18:30	Generator room	610.0	574
18:35	Transformer room	615.0	574	615.0	OK	18:35	Transformer room	615.0	574
18:40	Boiler room	620.0	574	620.0	OK	18:40	Boiler room	620.0	574
18:45	Control room	625.0	574	625.0	OK	18:45	Control room	625.0	574
18:50	Generator room	630.0	574	630.0	OK	18:50	Generator room	630.0	574
18:55	Transformer room	635.0	574	635.0	OK	18:55	Transformer room	635.0	574
19:00	Boiler room	640.0	574	640.0	OK	19:00	Boiler room	640.0	574
19:05	Control room	645.0	574	645.0	OK	19:05	Control room	645.0	574
19:10	Generator room	650.0	574	650.0	OK	19:10	Generator room	650.0	574
19:15	Transformer room	655.0	574	655.0	OK	19:15	Transformer room	655.0	574
19:20	Boiler room	660.0	574	660.0	OK	19:20	Boiler room	660.0	574
19:25	Control room	665.0	574	665.0	OK	19:25	Control room	665.0	574
19:30	Generator room	670.0	574	670.0	OK	19:30	Generator room	670.0	574
19:35	Transformer room	675.0	574	675.0	OK	19:35	Transformer room	675.0	574
19:40	Boiler room	680.0	574	680.0	OK	19:40	Boiler room	680.0	574
19:45	Control room	685.0	574	685.0	OK	19:45	Control room	685.0	574
19:50	Generator room	690.0	574	690.0	OK	19:50	Generator room	690.0	574
19:55	Transformer room	695.0	574	695.0	OK	19:55	Transformer room	695.0	574
20:00	Boiler room	700.0	574	700.0	OK	20:00	Boiler room	700.0	574
20:05	Control room	705.0	574	705.0	OK	20:05	Control room	705.0	574
20:10	Generator room	710.0	574	710.0	OK	20:10	Generator room	710.0	574
20:15	Transformer room	715.0	574	715.0	OK	20:15	Transformer room	715.0	574
20:20	Boiler room	720.0	574	720.0	OK	20:20	Boiler room	720.0	574
20:25	Control room	725.0	574	725.0	OK	20:25	Control room	725.0	574
20:30	Generator room	730.0	574	730.0	OK	20:30	Generator room	730.0	574
20:35	Transformer room	735.0	574	735.0	OK	20:35	Transformer room	735.0	574
20:40	Boiler room	740.0	574	740.0	OK	20:40	Boiler room	740.0	574
20:45	Control room	745.0	574	745.0	OK	20:45	Control room	745.0	574
20:50	Generator room	750.0	574	750.0	OK	20:50	Generator room	750.0	574
20:55	Transformer room	755.0	574	755.0	OK	20:55	Transformer room	755.0	574
21:00	Boiler room	760.0	574	760.0	OK	21:00	Boiler room	760.0	574
21:05	Control room	765.0	574	765.0	OK	21:05	Control room	765.0	574
21:10	Generator room	770.0	574	770.0	OK	21:10	Generator room	770.0	574
21:15	Transformer room	775.0	574	775.0	OK	21:15	Transformer room	775.0	574

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 backlight	•	•	•
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.

Fluke. Keeping your world up and running.

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