### Fluke 574 NI Specs Provided by www.AAATesters.com



## 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.

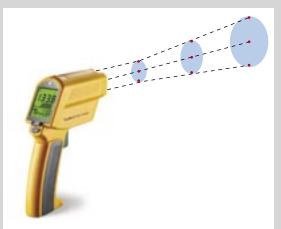
\*See specification table for details.



#### **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**

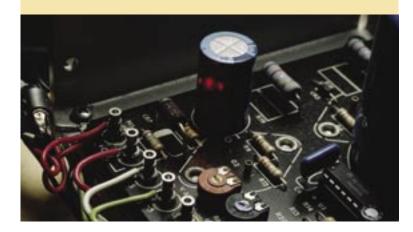


Accurate measurements depend in part on accurately sighting a target. Fluke 570 series thermometers are the only thermometers with a sighting system designed to precisely track the infrared path as seen by the sensors. This enables the advanced coaxial three-dot laser sighting to accurately show both 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.

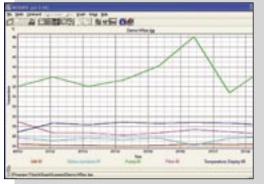






#### Software for Condition Monitoring and Process Control

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

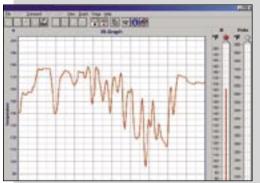
inspection routes

by giving names,

alarm points and emissivities to

locations.

		_		_	_	_		_					62
a		211	A 11-14	-	100	1100	int i	N.					
6	10000100	M(5	311.0	201	تالم	레몬	1010						
	There .	1.00	Res	10,000	<b>H</b> 14.	(M) Mar	-	(P104	(Internet)	Mana litera	(La digent	14.000	1.000
	-	1244	1221.0074	100.0	10.4	101		7913	24	Rives and	10.0	18.2	100
	onto ushai	(CMR)	0.003.94	164.0	44.0	141	No.	1963	1.44	Finite	10.1	10.0	141
	distant.	lected a	0.004 (4)	191.2	14.0	24.1	100	1914	1.44	Pare	10.0	18.0	100
		ACC -	to this Peri	100.0	83	10.0	812	184	1.44	Cavelle	10.0	14.0	100
	and a	100	UNIN	1718	42.4	1014	10.4	781	1.00	Sec.md	81.0	100	-
	904081	lone:	C KO M PH	100.0	41.0	1818	1413	Test.	1.00	Cowds.	22.0	140	-
	NEWENI	10,041	1210374	794	iter (		812	142	1.00	0.048	10.0	144.6	100
	004041	in (see )	1210.1474	01.4	10.2	10.4	264	744	1.00	12:448	36.0	144	-
	SEALER !	argues.	121.374	1040	10.1	vera.	10.4	les.	1.16	Dana, post	10.0	123	-
83	9645k5	k0ses	10 King Page	1972	10.0	100	10.4	745	1.46	Desired .	365	100	-
0	PEADIN	actives.	COMP4	104.0	18.2	144	104.4	10.4	1.00	0.00	100	100	-
	SEATER	action .	064274	14.0	14.0	144	mia l	162	1.00	File	10.0	12.0	-
	-	with the	2034	192.0	12.1	10.4	822	164	1.00	Free .	10.0	12.0	-
e l	SHEAVER IT	NONE:	101723-04	1610	11.4	100	141.1	14.2	1.04	Fee	10.0	120	-
đ	STATES IN	actives.	101018-04	100.2	10.4	1890	10.0	hei.	1.0	Fee	10.0	100	-
2	Nillauffé til	T-BRA	that is not	78.0	10.2	194	144	16.1	1.44	Free	10.0	12.0	-
d	Millard P 14	ariteri	101040	100.0	-	1941	10.4	18.6		free .	10.0	-040	1.
H	and the state of the	arites a	station in the	194.0	10.0	144	100	194	-	Free	144	100	1



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

#### Export Format " Flowing paint format # Replachment Time mode Depresal digits for electeds 2 1 W Abarbia F Loading Zen C Rolotive to hoster Of Show date P Show time Duno entrer 17 24 His.m. # day/mont/vyoar Out-sites month/dep/year Tena 8 Tana (Sec mush) C vetalitize/month Date / Term # State C yearing and billion CEat

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								
Response time  260 mSec (95 % of reading)    Spectral response  8 -14 microns, thermopile detector    Adjustable emissivity (rom 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 °P) non-condensing  Storage temperature  -20 °C to 50 °C (-25 °T to 122 °F )    Weight  -20 °C to 50 °C (-25 °T to 122 °F )  2 AA batteries/ AC adapter  AC adapter    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)  60:1  19 mm (0.76 in)    Minimum measurement diameter  19 mm (0.76 in) (6 mm (0.24 in) with Close Focus option)  60:1  19 mm (0.76 in)    Maximum and minimum temperature  -  •  •  •    Differential and average temperature  -  •  •  •    Bar graph display  •  •  •  •  •    Display resolution  0.1 °C of reading up to 900 °C (0.2 °F up to 999.8 °F)  •  •  •	Accuracy								
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    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)  60:1    Distance-to-Spot (D:S)  60:1 (50:1 with Close Focus Option)  60:1    Maimum and minimum temperature  •  •    Audible/visible high/low alarm  •  •    Iofferential and average temperature  •  •    Bar graph display  •  •  •    IOO-points-data logging  -  •  •    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)	Repeatability	$\leq \pm 0.5$ of reading or $\leq \pm 1$ °C ( $\pm 2$ °F), whichever is greater							
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								
(fróm 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  -20 °C to 50 °C (-25 °F to 122 °F )    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 thermcouple probe  -  •  •    Laser Class II  3-dot laser sighting (meets IEC Class 2 and FDA Class II requirements)  60:1  19 mm (0.76 in)    Inimum measurement diameter  9 mm (0.76 in)  19 mm (0.76 in)  19 mm (0.76 in)    Maximum and minimum temperature  •  •  •    Audible/visible high/low alarm  •  •  •    Differential and average temperature  -  •  •    Display hold  •  •  •  •    LCD backit  •  •  •  •    Temperature display  °C or °F selectable  •  •  •    Display resolution  0.1 °C of reading up to900 °C (0.2 °F up to 999.8 °F)  •	Spectral response								
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, 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)  60:1  19 mm (0.76 in)    Minimum measurement diameter  19 mm (0.76 in)  19 mm (0.76 in)  19 mm (0.76 in)    Maximum and minimum temperature  •  •  •    Audible/visible high/low alarm  •  •  •    Differential and average temperature  -  •  •    IOO-points-data logging  –  •  •    Display hold  •  •  •    LCD backlit  •  •  •    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 degree (°C or °F)  –  •  •    Hard carrying case <td></td> <td>•</td> <td>•</td> <td colspan="2">•</td>		•	•	•					
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								
AC adapterAC adapterPower supply, RS232 Computer Cable, 1.5 m (60 in), K thermocouple probeLaser Class II3-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)60:1Minimum measurement diameter19 mm (0.76 in) (6 mm (0.24 in) with Close Focus option)19 mm (0.76 in) 19 mm (0.76 in) common (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 display0.1 °C of reading up to 900 °C (0.2 °F up to 999.8 °F)•Data graphing software (Windows' NT, 2000, XP compatible)-•Mard carrying case•••The 574-NI has a factory Mutual Nonincendive rating. The rating from this USA organization reads: "Class I, Lories, A, B, C, D; Class I, Zonection in non-hazardous locations only•WARNING: Battery changes and RS-232 connection in non-hazardous locations only•	Weight								
Computer Čable, 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  •  •    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, 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.  -  <	Power	2 AA batteries							
Distance-to-Spot (D:S)60:1 (50:1 with Close Focus Option)60:1Minimum measurement diameter19 mm (0.76 in) (6 mm (0.24 in) with Close Focus option)19 mm (0.76 in) (19 mm (0.76 in) (6 mm (0.24 in) with Close Focus option)19 mm (0.76 in) (9 mm (0.76 in) (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-•102 backlit••Temperature display°C or °F selectableDisplay hold••LCD backlit••Temperature display0.1 °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•	Computer Cable, 1.5 m (60 in),	_	•	•					
Minimum measurement diameter19 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 display0.1 °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••	Laser Class II								
Maximum and minimum temperature(6 mm (0.24 in) with Close Focus option)Maximum and minimum temperature••Audible/visible high/low alarm••Differential and average temperature-•Bar graph display••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	Distance-to-Spot (D:S)	60:1 (50:1 with C	60:1						
Audible/visible high/low alarm  •  •    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 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, 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.  -  •  •	Minimum measurement diameter		19 mm (0.76 in)						
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)	_	•	•					
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.  -  -		_	•	•					
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.	Hard carrying case	•	•	•					
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.	Tripod mount								
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.

## Fluke. Keeping your world up and running.

#### Fluke Corporation

PO Box 9000, 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