

New thermometers and accessories to grow your business

Fluke is introducing a new family of digital, contact thermometers and accessories. Here is the information you will need to order, promote and sell these exciting, new products.

The new 50 Series II Thermometers. Laboratory accuracy wherever you go

All new 50 Series II Thermometers share these features:

- Laboratory accuracy: $\pm[0.05\% + 0.3\text{ }^\circ\text{C}]$
- Large, backlit dual display
- MIN/MAX/AVG with time stamp of all channels simultaneously
- Splash and dust resistant
- Rugged case with impact absorbing holster
- Supports up to seven different thermocouple types
- Optional ToolPak® allows the user to hang the thermometer with a magnet or a hook-and-loop strap

The Fluke 54 and 53 add the following features:

- Data logging to 500 points of internal memory
- Real-time time stamp
- Easy recall of logged data on display
- For further analysis and graphing, data can be exported to optional FlukeView® Forms software using the thermometers' IR communication port.



- Fluke 54 Series II Dual Input Thermometer with data logging
- Fluke 53 Series II Single Input Thermometer with data logging
- Fluke 52 Series II Dual Input Thermometer
- Fluke 51 Series II Single Input Thermometer



50S Single Input and 50D Dual Input Thermometers

Value-priced basic thermometers.

Basic features:

- Rugged, impact absorbing holster
- Hold mode freezes display for convenient viewing
- Accepts J or K-type thermocouples

The Fluke 50D adds these features:

- Dual channel with differential output (T1-T2)
- Min/Max recording of any single output
- Scan function continuously scans through measurement sequence (T1, T2, T1-T2)



New temperature probes to match our thermometers to more customer applications

In addition to the full line of K-type temperature probes Fluke already offers, we are adding a number of new J-type and T-type probes so more customers in more applications can use our thermometers:

- 80PJ-1 General Purpose Bead Probe
- 80PT-5A Piercing Probe
- 80PK-9 and 80PJ-9 General Purpose Probes for surface, air and gasses
- 80PK-EXT, 80PJ-EXT, 80PT-EXT, Extension Wire Kits for repairing J, K or T-type thermocouple wires



Fluke 50 Series II Thermometers

Laboratory accuracy. Wherever you go.



The new Fluke 50 Series II contact thermometers offer fast response and laboratory accuracy (0.05% + 0.3°C) in a rugged handheld test tool.

51 and 52 Series II :

- Large backlit dual display shows any combination of T1, T2 (52 only), T1-T2 (52 only) plus MIN, MAX, or AVG
- Relative time clock on MIN, MAX, and AVG provides a time reference for major events
- Electronic Offset function allows compensation of thermocouple errors to maximize overall accuracy
- Measures J, K, T, and E-types of thermocouples
- Readout in °C, °F, or Kelvin (K)
- Sleep mode increases battery life
- Battery door allows easy battery

replacement without breaking the calibration seal

- Optional ToolPak accessory for hanging your thermometer

Additional features for the 53 and 54 Series II :

- Data Logging up to 500 points of data with user adjustable recording interval
- Additional thermocouple types R, S, and N (for a total of 7 different types)
- Real time clock captures the exact time of day when events occur
- Recall function allows logged data to be easily reviewed on the meter display
- IR communication port allows data to be exported to optional FlukeView® Temperature PC software

Features

	51-II	52-II	53-II	54-II
Thermocouple types	J,K,T,E	J,K,T,E	J,K,T,E,N,R,S	J,K,T,E,N,R,S
Number of inputs	Single	Dual	Single	Dual
Time stamp	Relative Time	Relative Time	Time of Day	Time of Day
Splash/Dust resistant	●	●	●	●
Dual display with backlight	●	●	●	●
MIN/MAX/AVG recording	●	●	●	●
(T ₁ -T ₂) True differential		●		●
Data logging up to 500 points			●	●
IR data port for interface to PC			●	●
Compatible with optional FlukeView Software			●	●

Specifications

Temperature range:	
J-type Thermocouples	-210 °C to 1200 °C (-346 °F to 2192 °F)
K-type Thermocouples	-200 °C to 1372 °C (-328 °F to 2501 °F)
T-type Thermocouples	-250 °C to 400 °C (-418 °F to 752 °F)
E-type Thermocouples	-150 °C to 1000 °C (-238 °F to 1832 °F)
N-type** Thermocouples	-200 °C to 1300 °C (-328 °F to 2372 °F)
R** and S-type** Thermocouples	0 °C to 1767 °C (32 °F to 3212 °F)
Temperature accuracy	
Above -100 °C (-148 °F) :	
J, K, T, E, and N-type**	± [0.05% + 0.3 °C (0.5 °F)]
R** and S-type**	± [0.05% + 0.4 °C (0.7 °F)]
Below -100 °C (-148 °F) :	
J, K, E, and N-types	± [0.20% + 0.3 °C (0.5 °F)]
T-type	± [0.50% + 0.3 °C (0.5 °F)]

** Only the Fluke Models 53 and 54 Series II thermometers are capable of measuring N, R, and S-type thermocouples.

Accessories and Ordering Information

Included Accessories

- Impact absorbing holster
- Two bead probe thermocouples (54+52)
- One bead probe thermocouple (51+53)

Ordering Information

- FLUKE 51-II Thermometer
- FLUKE 52-II Thermometer
- FLUKE 53-II Thermometer
- FLUKE 54-II Thermometer

Visit us on the world wide web at :
<http://www.fluke.com>

- Battery life:** 1000 hours typical, AA
- Size (HxWxD):** 173 x 86 x 38 mm
- Weight:** 400g
- Warranty:** 3 years

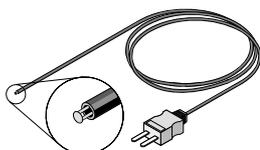
Temperature Accessories

Contact Probes

New

80PK-1 and 80PJ-1 Bead Probe

- 80PK-1 : Type-K thermocouple for general purpose applications
- 80PJ-1 operates with J-type thermometers
- Measurement range: -40 to 260°C
- Accuracy: $\pm 1.1^\circ\text{C}$



New

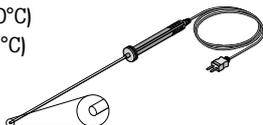
80BK Low-cost Integrated DMM Probe

- Type-K thermocouple with standard banana jack
- Convenient one piece construction
- Compatible with DMMs with temperature measurement functions
- Measurement range: -40 to 260°C
- Accuracy: $\pm 1.1^\circ\text{C}$



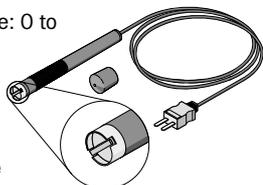
80PK-2A Immersion Probe

- Type-K thermocouple for use in liquids and gels
- Measurement range: -196 to 1090°C
- Accuracy:
 - $\pm 4\%$ (-196 to -110°C)
 - $\pm 4.4^\circ\text{C}$ (-110 to -40°C)
 - $\pm 2.2^\circ\text{C}$ (-40 to 275°C)
 - $\pm 0.75\%$ (275 to 1090°C)



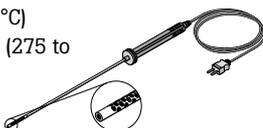
80PK-3A Surface Probe

- Type-K thermocouple for flat or curved surfaces such as plates and rollers
- Measurement range: 0 to 260°C
- Accuracy: $\pm 2.2^\circ\text{C}$



80PK-4A Air Probe

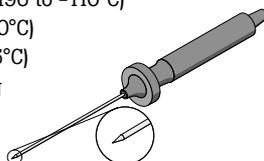
- Type-K thermocouple for use in air or gases, except halides and sulfides
- Bead protected by perforated baffle
- Measurement range: -196 to 816°C
- Accuracy:
 - $\pm 4\%$ of reading (-196 to -110°C)
 - $\pm 4.4^\circ\text{C}$ (-110 to -40°C)
 - $\pm 2.2^\circ\text{C}$ (-40 to 275°C)
 - $\pm 0.75\%$ of reading (275 to 816°C)



New

80PK-5A and 80PT-5A Piercing Probe

- 80PK-5A : Type-K thermocouple suitable for food industry, liquids and gels except halides and sulfides
- 80PT-5A operates with T-type thermometers
- Measurement range: -196 to 816°C
- Accuracy:
 - $\pm 4\%$ of reading (-196 to -110°C)
 - $\pm 4.4^\circ\text{C}$ (-110 to -40°C)
 - $\pm 2.2^\circ\text{C}$ (-40 to 275°C)
 - $\pm 0.75\%$ of reading (275 to 816°C)



80PK-6A Exposed Probe

- Type-K thermocouple provides fast response for non-reducing air and gases, except halides, sulfides, and vacuums
- Measurement range: -196 to 816°C
- Accuracy:
 - $\pm 4\%$ of reading (-196 to -110°C)
 - $\pm 4.4^\circ\text{C}$ (-110 to -40°C)
 - $\pm 2.2^\circ\text{C}$ (-40 to 275°C)
 - $\pm 0.75\%$ of reading (275 to 816°C)



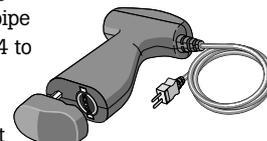
80PK-7 Industrial Surface Probe

- Type-K thermocouple for surfaces in rugged environment
- Durable ribbon sensor
- Measurement range: -127 to 600°C
- Accuracy:
 - $\pm 4.4^\circ\text{C}$ (-127 to 0°C)
 - $\pm 2.7^\circ\text{C}$ (0 to 225°C)
 - $\pm 1.2\%$ of reading (225 to 600°C)



80PK-8 Pipe Clamp Temperature Probe

- Type-K thermocouple for fast temperature and superheat measurements of pipe surfaces
- Durable ribbon sensor
- Measurement range: -29 to 149°C for pipe diameters from 6.4 to 34.9mm
- Accuracy: 1.9°C over measurement range



New

New

80PK-9 and 80PJ-9 General Purpose Probe

- 80PK-9 : Type-K thermocouple surface, air and non-caustic gases
- 80PJ-9 operates with J-type thermometers
- Measurement range : -40°C to 260°C
- Accuracy : $\pm 2.2^\circ\text{C}$



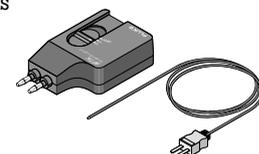
80T-150U Universal Temperature Probe

- Compatible with Fluke DMM
- High accuracy, fast reading for low voltage (below 24Vac, 60V dc) applications
- Measurement range: -50 to 150°C
- Output: 1mV/°C or 1mV/°F (switchable)
- Accuracy:
 - $\pm 1^\circ\text{C}$ (0-100°C)
 - Decreases linearly to $\pm 3^\circ\text{C}$ (-50 to 0°C, 100-150°C)



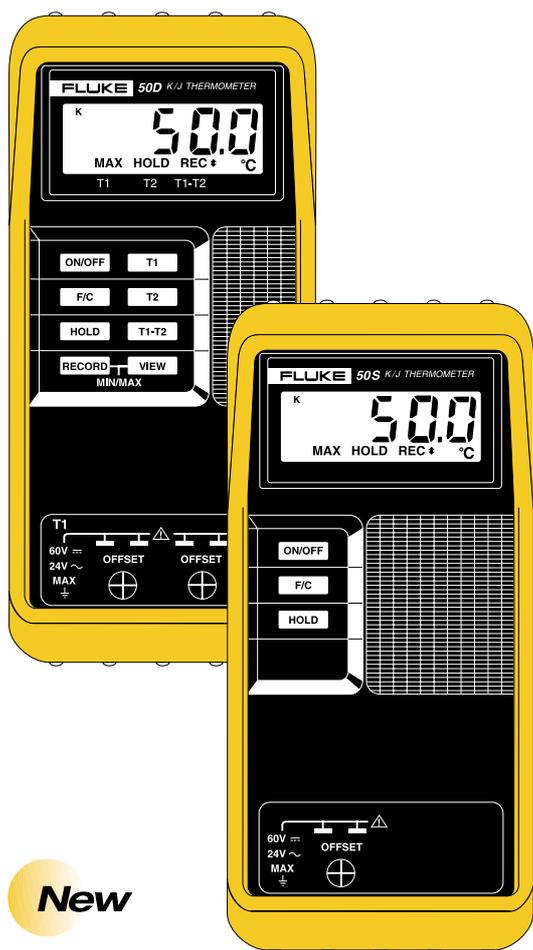
80TK Thermocouple Module

- Converts a DMM to a thermometer
- For use with type-K thermocouples in low voltage applications (below 24Vac, 60V dc)
- Measurement range: -50 to 1000°C (probe dependent)
- Accuracy:
 - $2.5\% \pm 2^\circ\text{C}$ (-50 to -20°C)
 - $0.5\% \pm 2^\circ\text{C}$ (-20 to 350°C)
 - $1.75\% \pm 2^\circ\text{C}$ (350 to 500°C)
 - $2\% \pm 2^\circ\text{C}$ (500 to 1000°C)



Fluke 50S and 50D Thermometers

Value-priced thermometers featuring great reliability



New



The Fluke 50S (single input) and 50D (dual input) contact thermometers offer basic functionality at a great price. These thermometers work with either

K- or J-type thermocouples and offer 0.1 °C (0.2 °F) resolution over the entire measurement range. Both models are protected by a rugged yellow holster.

- Value-priced offering with choice of single input or dual input models
- OFFSET function minimizes thermocouple errors

- K- or J-type thermocouple compatibility
- °C or °F readout
- User selectable 0.1 °C (0.2 °F) or 1° resolution
- HOLD Mode freezes display for convenient viewing
- (T1-T2) true differential display mode (50D Only)
- SCAN Mode cycles display through T1, T2, (T1-T2) (50D Only)
- MIN/MAX Recording (50D only)

Features

	50S	50D
User Selectable °C or °F	●	●
1°C or 0.1°C (1°F or 0.2°F) Resolution - Internal Jumper	●	●
J- or K-Type Thermocouples	●	●
Single Thermocouple Input	●	
Dual Thermocouple Input		●
Wide Variety of Interchangeable Thermocouple Probes	●	●
READ Hold	●	●
Self Test	●	●
Differential Temperature (T ₁ -T ₂)		●
SCAN Function (T ₁ , T ₂ , T ₁ -T ₂ , . . .)		●
MIN/MAX Record		●

Specifications

Temperature Range:	
K-type	-200 °C to 1370 °C (-328 °F to 2498 °F)
J-type	-200 °C to 760 °C (-328 °F to 1400 °F)
Temperature Accuracy:	
K-type	± [0.1% + 0.7 °C (1.3 °F)]
J-type	± [0.1% + 0.8 °C (1.4 °F)]

Battery life: 800 hours typical, 9V

Size (HxWxD): 166 x 75 x 28 mm

Weight: 280 g

Warranty: 1 year

Accessories and Ordering Information

Included accessories

50D : Two K-type bead probe thermocouples, C70Y holster
 50S : One K-type bead probe thermocouple, C70Y holster

Ordering Information

FLUKE 50S Thermometer
 FLUKE 50D Thermometer

Visit us on the world wide web at:
<http://www.fluke.com>

Product Ordering Information

Here is all the information your purchasing department should need to generate a purchase order to stock up on these new products. If you need any further information, your Fluke representative will be happy to provide it.

Single Product Package Dimensions							
Fluke Model #	EAN Code	Description	Height	Length	Width	Weight	Country of origin
FLUKE-51-2 50HZ	00 95969 07765 1	Single input thermometer (50Hz version)	21.9 cm	16.5 cm	6.4 cm	0.6 kg	USA
FLUKE-52-2 50HZ	00 95969 07764 4	Dual input thermometer (50Hz version)	21.9 cm	16.5 cm	6.4 cm	0.6 kg	USA
FLUKE-53-2 50HZ	00 95969 07763 7	Single input thermometer with recording (50Hz version)	21.9 cm	16.5 cm	6.4 cm	0.6 kg	USA
FLUKE-54-2 50HZ	00 95969 07762 0	Dual input thermometer with recording (50Hz version)	21.9 cm	16.5 cm	6.4 cm	0.6 kg	USA
Fluke-50S	00 95969 07755 2	Single input thermometer	23.5 cm	16 cm	8.4 cm	0.88 kg	USA
Fluke-50D	00 95969 07754 5	Dual input thermometer	23.5 cm	16 cm	8.4 cm	0.88 kg	USA
80PJ-1	00 95969 07844 3	General purpose bead probe	19.7	253 mm	99.2	84 grams	USA
80PT-5A	00 95969 07845 0	Type T thermocouple piercing probe	32 mm	458.2 mm	124.8 mm	168 grams	USA
80PJ-9	00 95969 07846 7	Type J lance tip probe	39.2 mm	304 mm	150.5 mm	140 grams	USA
80PK-9	00 95969 07847 4	Type K lance tip probe	39.2 mm	304 mm	150.5 mm	140 grams	USA
80PJ-EXT	00 95969 07848 1	Type J extension wire kit	25.6 mm	253 mm	128 mm	112 grams	USA
80PK-EXT	00 95969 07849 8	Type K extension wire kit	25.6 mm	253 mm	128 mm	112 grams	USA
80PT-EXT	00 95969 07850 4	Type T extension wire kit	25.6 mm	253 mm	128 mm	112 grams	USA
SW54	0095969 07860 3	FlukeView Forms Software for Fluke 53 & 54	24.4cm	20.5cm	4.5cm	0.91kg	USA
SC54	0095969 07859 7	FlukeView Forms Software with cable for Fluke 53 & 54	24.4cm	20.5cm	4.5cm	0.91kg	USA

Fluke. Keeping your world up and running.

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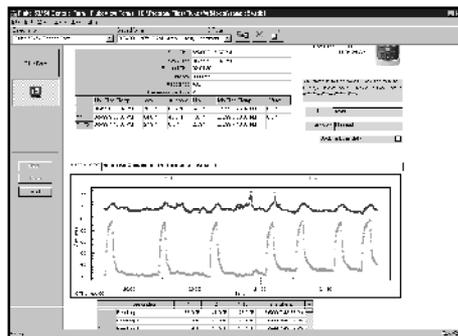
For more information call:
In the U.S.A. (800) 443-5853 or Fax (425) 356-5116
In Europe/M-East +31 (0)40 2 678 200 or
Fax +31 (0)40 2 678 222
In Canada (905) 890-7600 or Fax (905) 890-6866
From other countries +1(425) 356-5500 or
Fax +1(425) 356-5116
Web access: <http://www.fluke.com>

FlukeView® Forms Documenting Software for Fluke 53 and 54 Digital Thermometers

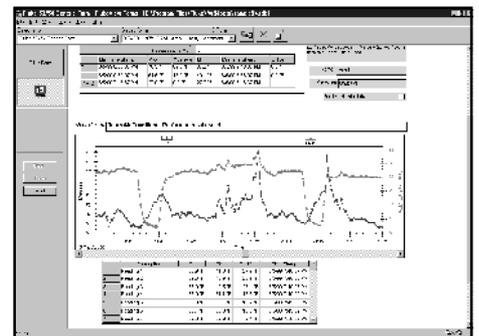
Fast and easy documentation and analysis

Technical Data

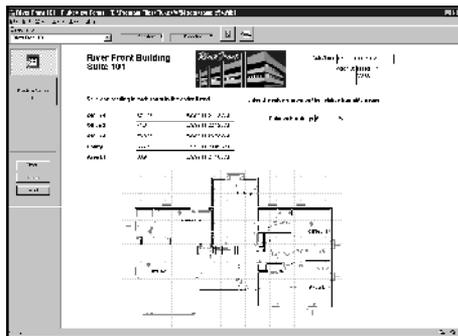
- Acquire and document readings from Fluke 53 and 54 Digital Thermometers
- Display acquired data in graphs and tables
- View previously documented results
- Easily transfer readings to other PC applications
- Includes standard forms for professional looking documents
- Create customized forms with FlukeView® Forms Designer program
- Allows IR communications through PC serial or IR port
- FlukeView forms (SC-54) includes IR adapter, holster, and serial cable



Ready to run Sample forms included. Can be used to document test results in graph and table presentations.



Dual y-axis graphs track two temperatures and the differential (54 only). In addition, the data can be easily transferred to your favorite compatible Windows Application.



FlukeView® Forms Designer program lets you customize forms using a variety of graphs and tables. And, you can add images and text specific to your application.

Recommended System Requirements:

- Pentium® class processor
- 32 MB RAM
- 25 MB hard disk space
- Serial or IR port
- Microsoft Windows 95®, Windows 98® or Windows NT® operating system

Ordering Information

Model

SW54 Includes FlukeView® Software (CD-ROM), Installation Guide and Warranty (Model SW54 is for PCs **with** a compatible Infrared port)

SC54 Includes FlukeView® Software (CD-ROM), Infrared adapter, Holster and Cable, Installation Guide and Warranty (Model SC54) is for PCs **without** a compatible Infrared port - serial port required.

Fluke. *Keeping your world
up and running.*

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For more information call:

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

Fax (425) 356-5116

Europe/M-East/Africa (31 40) 2 678 200 or

Fax (31 40) 2 678 222

Canada (800) 36-FLUKE or

Fax (905) 890-6866

Other countries (425) 356-5500

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

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