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Find the *Fluke 52* at our website: ***Click HERE***

THERMOMETERS FLUKE®

51 and 52 Digital Thermometers



High Accuracy, High Performance Temperature Measurements

CE

Introduction

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Introduction

Fluke's 50 Series Digital Thermometers combine low-cost, handheld test tool technology with laboratory-grade benchtop temperature measurement. Designed for high accuracy and resolution with excellent repeatability, the 50 Series is one of the most advanced, yet affordable handheld thermometer lines in the industry.

High Accuracy, High Performance and Simple Operation

Both the Models 51 and 52 offer many versatile functions, selected by simple, clearly-labeled push buttons. **Both thermometers will work with either K- or J-type thermocouples,** selectable by the user.

Model 51: *A high quality, high performance, single-channel Digital Thermocouple Thermometer with 1°C or 0.1°C (1°F or 0.2°F) resolution.* Resolution applies to entire measurement range of instrument. Functions

include **selectable readout** in °C or °F, easily converted with the push of a button; **self-test;** and **HOLD Mode,** which freezes a reading for convenient viewing, then releases it for continued measurements.

Model 52: *The dual-channel Fluke 52 has all the capabilities of the Model 51, plus additional measurement functions and high-performance features.* With its dual thermocouple inputs (T_1 and T_2), the Fluke 52 can calculate and display the temperature difference between two different sources (**DIFFERENTIAL Mode**)—ideal for measuring input-output temperature changes, and trend information. Other features include **SCAN Mode,** a unique feature for continuous scanning through a measurement sequence, (T_1, T_2,), (T_1 -T_2); and **MIN/MAX RECORD,** allowing minimum and maximum temperatures from any one of its three channels (T_1, T_2, or T_1 -T_2) at one time; and **user-selected resolution.**

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Features

Features	Fluke 51	Fluke 52
User Selectable °C or °F	x	x
1°C or 0.1°C (1°F or 0.2°F) Resolution - Internal Jumper	x	x
Push Button Selectable Resolution	1	x
J- or K-Type Thermocouples	x	x
Single Thermocouple Input	x	
Dual Thermocouple Input		x
Wide Variety of Interchangeable Thermocouple Probes	x	x
READ Hold	x	x
Self Test	x	x
Differential Temperature (T_1 -T_2)		x
SCAN Function (T_1, T_2, T_1 -T_2, . . .)		x
MIN/MAX Record		x

1 Resolution Internally Selectable

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Specifications

For operating temperatures from 18°C to 28°C.
Temperature measurement range:

K-Type Thermocouples -200°C to +1370°C (-328°F to +2498°F)
J-Type Thermocouples -200°C to +760°C (-328°F to +1400°F)

	Accuracy ±(% of Reading + °C)		Accuracy ±(% of Reading + °F)	
Model	**Type K**	**Type J**	**Type K**	**Type J**
51 or 52	(0.1%+ 0.7°C)	(0.1%+ 0.8°C)	(0.1%+ 1.3°F)	(0.1%+ 1.4°F)
52 only* T_1 -T_2	(0.1%+ 1.0°C)	(0.1%+ 1.2°C)	(0.1%+ 1.8°F)	(0.1%+ 2.2°F)

*Typical accuracy only to T_1 minus T_2 temperature

Battery Life: 800 hours typical, 9V

Size: 166 mm L x 75 mm W x 28 mm D (6.55" L x 2.95" W x 1.12" D)

Weight: 280 gm (10 oz)

Three Year Warranty: One year calibration interval

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Accessories and Ordering Information

Included Accessories

A general purpose 80PK-1 bead thermocouple is included with each **Fluke 51**; two 80PK-1 bead thermocouples are included with the **Fluke 52**; battery, operator's manual, and 3-year product warranty.

Optional Accessories

Models	Description
80PK-1	Bead Probe
80PK-2A	Immersion Probe
80PK-3A	Surface Probe
80PK-4A	Air Probe
80PK-5A	Piercing Probe
80PK-6A	Exposed Probe
80PK-7	Industrial Surface Probe
80PK-8	Pipe Clamp Temperature Probe

80PK-IR	Infrared Temperature Probe
80CK-M	Male Mini-Connector Plug (pkg/2)
80CJ-M	Male Mini-Connector Plug (pkg/2)
C50	Compact Soft Case w/out Holster
C70Y	Yellow Holster
C70G	Grey Holster
C100	Universal Carrying Case
C17Y	Durable Case
C90	Soft Case

See Temperature Accessories.

Ordering Information

Models	Description
Fluke 51	Digital Thermometer
Fluke 52	Digital Thermometer

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