

FLUKE®

Fluke 279 FC TRMS Thermal Multimeter



Overview:

- **Fluke 279 FC True-rms Thermal Multimeter helps you find, repair, validate, and report many electrical issues quickly so that you are confident problems are solved.**

Locate the problem immediately

Thermal imaging multimeters are a first-line troubleshooting tool for electrical equipment that can check hot spots of high-voltage equipment and transformers, and detect heating of fuses, wires, insulators, connectors, splices and switches. Scanning with the 279 FC's thermal imager reveals many electrical issues rapidly and from a safe distance. By combining two tools into one, the thermal multimeter lightens the load and increases productivity.

Expanded functionality

Compatible with iFlex® (a flexible current clamp) to expand your measurement capabilities and get into tight, hard to reach spaces for current measurement (up to 2500 A AC). The large full-color LCD screen makes for easier and clearer viewing of images and readings. The 10 hour+ rechargeable battery keeps you going all day long under normal conditions.

Communicate your results

With built-in Fluke Connect®, transmit results wirelessly to a smartphone and save time on reporting to validate work is complete. Troubleshoot better by instantly trending and monitoring measurements live on your smartphone screen. Create and email reports right from the field.

Features:

- Full-featured multimeter with built-in thermal imager
- 15 measurement functions including: AC voltage with low-pass filter, DC voltage, Resistance, Continuity, Capacitance, Diode test, Min/Max/Avg, AC current (with iFlex), Frequency
- Thermal imaging reveals many electrical issues quickly and safely, eliminating the need for time-consuming testing and validation
- Two-in-one tool is designed to increase productivity – no need to go back to the truck or office to retrieve a shared camera or wait for the thermographer– do more in less time!
- iFlex expands your measurement capabilities – get into tight, hard to reach spaces for current measurement (up to 2500 A AC)
- Save measurements and images while communicating wirelessly with a smart phone up to 20 feet / 6.1 m away (no obstructions)
- Image resolution–80 x 60
- 3.5 in /8.89 cm color LCD screen
- Rechargeable lithium ion battery allows for a for a full work day (10+ hours) under normal conditions
- Assembled in the USA
- Three year standard warranty
- Auto power off to save battery power
- CAT III 1000 V, CAT IV 600 V measurement category
- Optional accessories: Fluke i2500-10 or i2500- 18 iFlex® Flexible Current Probes, Fluke BC500TDMM AC Power charger and Fluke BP500 Lithium-ion Battery 3000 mAh
- Designed for durability, built to withstand a 3 m (9.8 ft) drop, double insulated with raised rubber holster for increased protection

Fluke Connect

Fluke Connect connects your meter to your phone through Bluetooth to help you get more done faster and safer

- Save measurements and images while communicating wirelessly with a smart phone up to 20 feet / 6.1m away (no obstructions)
- Troubleshoot better by instantly trending and monitoring measurements live on your phone screen
- Create and email reports right from the field. Report not enough? Fluke Connect has ShareLive video calls that stream live video and measurements in the same screen

Measurement capability

- 1000 V ac and dc voltage measurement
- Up to 2500 A ac current measurement (with optional iFlex)
- Temperature measurement from -10 °C to 200 °C (14 °F to 392 °F)
- Resistance measurement to 50 MΩ
- Continuity
- Diode Test
- Min and max recording to capture variations automatically
- Frequency
- 9999 μF capacitance measurement
- True-rms voltage and current for accurate measurements on non-linear signals

Other features

- CAT IV 600 V , CAT III 1000 V measurement category
- Rechargeable lithium ion battery and charger
- Three-year warranty

- Hanging strap (optional) allows you to conveniently hang the meter while using the probes
- Soft carrying case (optional)

DMM

Basic dc accuracy	0.09%
Bandwidth	1% 45 Hz to 65 Hz, full time low pass filter
Voltage	ac/dc 1000 V
Current ac	iFlex Flexible Current Probe (included with the 279 FC/iFlex)
Resistance	50 MΩ
Frequency	100 kHz
Capacitance	9,999 μF
Continuity with beeper	Yes
Diode test	Yes
Min/Max recording	Yes
Display Hold	Yes

Infrared camera

Infrared resolution	80 x 60
Image capture frequency	8 Hz
Field of View	36° (w) x 27° (h)
NETD	≤200 mK
Infrared spectral band	7.5 to 14 microns
Center point	Yes (with center point temp)
Focus mechanism	Fixed focus
Temperature Range (selectable °C and °F)	-10 °C to 200 °C (14 °F to 392 °F) Accuracy: ±5 °C (41 °F) or (±5% as tested)
Emissivity	0.95 fixed
Background compensation	20 °C fixed
Memory storage	Approximately 100 images (internal)
File format	Non-radiometric .is2

General specifications

Battery type	Rechargeable lithium ion battery (charge time: 4.5 hours)
Operating temperature	-10 °C to 50 °C (14 °F to 122 °F)
Storage temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Relative humidity	0% to 90% (0 °C to 35 °C) (32 °F to 95 °F) 0% to 75% (35 °C to 40 °C) (95 °F to 104 °F) 0% to 45% (40 °C to 50 °C) (104 °F to 122 °F)

Altitude	2,000 meters (6,561 feet)
Temperature coefficient	Add 0.1 x specified accuracy for each °C above 28 °C or below 18 °C (°F above 82 °F or below 64° F)
Ingress Protection	(IP) IP40 (non-operating)
Wireless frequency	2.4 GHz ISM Band, 20 meter range
Certifications	CE, CSA, FCC
Safety compliance	IEC 61010-1: Pollution degree 2; IEC 61010-2-033: CAT III 1000 V/CAT IV 600 V
EMC	EN 61326-1:2012
Size	215.9 x 93.9 x 57.1 mm (8.5 x 3.7 x 2.25 in)
Weight	0.793 kg (1.75 lb)
Warranty	Limited three-year warranty

Model Name	Description
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