

Fluke 279 FC True-rms Thermal Multimeter

Fluke 279 FC Wireless True-RMS Thermal Digital Multimeter

The 279 FC multimeter is a full-featured multimeter with built-in thermal imager that reveals hot spots that may indicate electrical issues quickly and safely.

Thermal imaging multimeters are a first-line troubleshooting tool for electrical equipment that can check hot spots on 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, this thermal multimeter lightens the load and increases productivity.



Expanded functionality

This digital multimeter is 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). This electrical multimeter has a 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.

Other useful features

- Full-featured electrical multimeter with built-in thermal imager
- 15 measurement functions including: voltage ac and dc, resistance, continuity, capacitance, diode test, Min/Max/Avg, current ac with included iFlex current probe, frequency
- Low-pass filter for troubleshooting adjustable speed drives Thermal imaging reveals hot spots that may indicate electrical issues quickly and safely
- Two-in-one tool is designed to increase productivity – no need to go back to the truck or office to retrieve a shared camera – so you can 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)
- 102x77 image resolution offers immediate visual cues of hot, potentially troublesome areas
- 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; a second battery option means you will always have a battery ready to install.
- Three year standard warranty
- Auto power off to save battery power
- CAT III 1000 V, CAT IV 600 V measurement category
- Designed for durability, built to withstand a 1 m (3 ft) drop, double insulated with raised rubber holster for increased protection

Includes

- 279 FC TRMS Thermal Multimeter
- 45.72 cm (18 in) iFlex Flexible Current Probe
- (1 pair) TL175 Test Leads
- Rechargeable Lithium Ion Battery and Charger
- Soft Carrying Case
- Hanging strap

Specifications: Fluke 279 FC True-rms Thermal Multimeter

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	2500 A with included iFlex Flexible Current Probe
Resistance	50 M Ω
Frequency	100 kHz
Capacitance	9,999 μ F
Continuity with beeper	Yes
Diode test	Yes
Min/Max recording	Yes
Display Hold	Yes

Infrared camera	
Infrared resolution	102 x 77
Image capture frequency	8 Hz
Field of View	36° (w) x 27° (h)
NETD	\leq 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: \pm 5 °C (9 °F) or (\pm 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)