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Data Sheet

August 14, 2026

FLUKE

Fluke 279FC/iFlex Wireless True RMS Thermal Multimeter with iFlex

The Fluke 279 FC wireless thermal multimeter helps you find, repair, validate, and report electrical issues quickly and with confidence. Featuring a built-in thermal imager, the 279 FC thermal multimeter is designed to increase your productivity and confidence. The thermal multimeter helps you find hot spots, and over-heated equipment and verify electrical issues.



MODEL

Fluke 279FC/iFlex

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

279FC/iFlex

LISTING

<https://aumictechlabs.com/products/279fc-iflex-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 279FC/iFlex Wireless True RMS Thermal Multimeter combines full-featured digital multimetry with integrated thermal imaging for dual-function electrical troubleshooting. Engineers and technicians gain the ability to detect thermal anomalies, measure electrical parameters, and validate system performance from a safe distance. The 80 × 60 pixel infrared imager covers -10°C to 200°C with <200 mK thermal sensitivity. Wireless Fluke Connect capability enables smartphone data transfer and reporting; iFlex flexible current probe compatibility extends AC current measurement to 2500 A in confined spaces. Technical Specifications Thermal Imaging Infrared Range: -10°C to 200°C (14°F to 392°F) Image Resolution: 80 × 60 pixels Field of View: 36° H x 27° V Thermal Sensitivity (NETD): <200 mK Frame Rate: 8 Hz Electrical Measurements

AC/DC Voltage: Up to 1000 V (ranges: 600.0 mV to 1000 V) AC Current (with iFlex): Up to 2500 A (± 999.9 A / 0.1 A; ± 2.5 kA / 1 A) Resistance: Up to 50 M Ω (ranges: 600.0 Ω to 600.0 k Ω) Capacitance: Up to 9999 μ F (1000 counts resolution) Measurement Functions: 15 total (includes continuity, diode test, frequency, Min/Max/Avg, V/Hz ratio) Display & Interface 3.5-inch Color LCD, 4 updates/sec Wireless Range: Up to 20 m (6.1 m obstructed) Data Storage: Up to 100 images and measurements Power & Durability Battery: Rechargeable Lithium-ion (Fluke BP500), 10+ hour runtime Operating Temperature: -10°C to 50°C (14°F to 122°F) Drop Rating: 3 m (9.8 ft); CAT III 1000 V / CAT IV 600 V Double insulated with raised rubber holster Key Features AC voltage with low-pass filter included True RMS measurement capability Auto power-off function Fluke Connect wireless data transfer Typical Applications Electrical system diagnosis and thermal fault detection Preventive maintenance in industrial and commercial settings Hard-to-reach current measurements via iFlex probe Field troubleshooting with onsite image documentation Compatibility & Integration iFlex flexible current probe enables non-invasive measurement of AC current up to 2500 A in confined areas. Fluke Connect integration allows wireless measurement and thermal image transfer to smartphones for remote analysis and report generation.

279FCIFLEX Characteristics / Specifications

PARAMETER	VALUE
Maximum Voltage To Earth	1000 V
Safety Category	CAT III 1000 V CAT IV 600 V
Display Size	8.9 cm (3.5 in) color LCD
Display Update Rate	4/sec
Display Counts Volts Amps Ohms	6000
DC Millivolts Range	600.0 mV
DC Millivolts Accuracy	0.09 percent plus 2
AC Voltage Accuracy 45 to 65 Hz	1.0 percent plus 3
AC Voltage Ranges	600.0 mV to 1000 V
DC Voltage Maximum	1000 V
Resistance Maximum	50 Mohm
Capacitance Maximum	9999 uF
Continuity Beeper On	less than 25 ohm
Continuity Beeper Off	greater than 250 ohm
Diode Test	OL above 2.0 V iFlex AC Current Range: 1.0 A to 2500 A iFlex AC Current Accuracy 45 to 500 Hz: 3 percent plus or minus 5 digits
Thermal Temperature Range	minus 10 C to plus 200 C
Thermal Temperature Accuracy At 25 C Ambient	plus or minus 5 C or plus or minus 5 percent whichever greater
Battery	Li-ion 7.4 V 3000 mAh BP500
Battery Life Minimum	10 hours
Operating Temperature	minus 10 C to 50 C
Storage Temperature Without Battery	minus 20 C to plus 60 C
Relative Humidity 0 to 35 C	0 percent to 90 percent
Operating Altitude	2000 m
Wireless Frequency Class	2402 MHz to 2480 MHz

PARAMETER	VALUE
Temperature Coefficient	0.1 x specified accuracy perCoutside 18 to 28 C
Storage temperature	Without Battery: minus 20 C to plus 60 C
Humidity	0 to 35 C: 0 percent to 90 percent

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	Without Battery: minus 20 C to plus 60 C
Operating temperature	minus 10 C to 50 C
Operating Temperature	minus 10 C to 50 C
Humidity	0 to 35 C: 0 percent to 90 percent
Storage Temperature Without Battery	minus 20 C to plus 60 C
Relative Humidity 0 to 35 C	0 percent to 90 percent
Operating Altitude	2000 m
Wireless Frequency Class	2402 MHz to 2480 MHz
Temperature Coefficient	0.1 x specified accuracy perCoutside 18 to 28 C Notes From Fluke 279 FC Users Manual detailed specifications. Accuracies for one year at 18 C to 28 C with 0 to 90 percent RH; iFlex current requires compatible optional clamp.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

specifications list CAT III 1000 V / CAT IV 600 V rating, DC mV accuracy 0.09 percent plus 2, AC voltage true-RMS tables from 45 Hz, resistance to 50 Mohm, capacitance to 9999 uF, optional iFlex AC current to 2500 A, and Li-ion battery life of at least 10 hours.

Applications

Finding hot spots on panels fuses and connectors with the imager then verifying with DMM functions, industrial electrical troubleshooting, Fluke Connect wireless documentation, and high-current measurements with optional iFlex clamp.

Key Features

Integrated IR camera with DMM in one tool

True-RMS AC voltage and current (with iFlex)

15 electrical measurement functions class

Fluke Connect wireless connectivity

Rechargeable Li-ion battery 10 plus hours

Technical Specifications

Technical Specifications

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Maximum Voltage To Earth	1000 V
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Display Size	8.9 cm (3.5 in) color LCD
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AC Voltage Ranges	600.0 mV to 1000 V
DC Voltage Maximum	1000 V
Resistance Maximum	50 Mohm
Capacitance Maximum	9999 uF
Continuity Beeper On	less than 25 ohm
Continuity Beeper Off	greater than 250 ohm
Diode Test	OL above 2.0 V
iFlex AC Current Range	1.0 A to 2500 A

iFlex AC Current Accuracy 45 to 500 Hz: 3 percent plus or minus 5 digits

Specifications

PARAMETER	VALUE
Thermal Temperature Range	minus 10 C to plus 200 C
Thermal Temperature Accuracy At 25 C Ambient	plus or minus 5 C or plus or minus 5 percent whichever greater
Battery	Li-ion 7.4 V 3000 mAh BP500
Battery Life Minimum	10 hours
Operating Temperature	minus 10 C to 50 C
Storage Temperature Without Battery	minus 20 C to plus 60 C
Relative Humidity 0 to 35 C	0 percent to 90 percent
Operating Altitude	2000 m
Wireless Frequency Class	2402 MHz to 2480 MHz
Temperature Coefficient	0.1 x specified accuracy perCoutside 18 to 28 C

Notes

From Fluke 279 FC Users Manual detailed specifications. Accuracies for one year at 18 C to 28 C with 0 to 90 percent RH; iFlex current requires compatible optional clamp.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.