

TECHNICAL DATA

Fluke 289/ir3000 FC Kit



Key features

Equipped with new functionality

- NEW – Now compatible with Fluke Connect mobile app and all Fluke FC enabled test tools with the included ir3000 FC infrared connector.
- NEW – Let your team see what you see in an instant with ShareLive™ video call using the Fluke Connect mobile app and ir3000 FC wireless connector.
- TrendCapture graphically displays logged data session to quickly determine whether anomalies may have occurred.
- Zoom on trend provides unprecedented ability to view and analyze TrendCapture data; zoom in up to 14 times.

- Selectable AC filter (smoothing mode) helps display a steadier reading when the input signal is changing rapidly or noisy.
- Adjustable recording and auto hold thresholds, specify a percentage change in the readings that begins a new event.
- Large 50,000 count, 1/4 VGA dot matrix display with white backlight.
- Logging function with expanded memory for unattended monitoring of signals over time. Using on-board TrendCapture users can graphically review logged readings without needing a PC. Store up to 15,000 recorded events.
- Save multiple logging sessions before PC download is necessary.
- Two terminal 50 ohm range with 1 milliohm resolution, 10 mA source current. Useful for measuring and comparing differences in motor winding resistance or contact resistance.
- Low Pass filter for accurate voltage and frequency measurements at the same time on adjustable speed motor drives and other electrically noisy equipment.
- LoZ Volts. Low impedance voltage function for eliminating ghost voltages. Also recommended when testing for absence or presence of live power.
- On board help screens for measurement functions. Unsure about a function - go to that function and press the "i" button.
- Real time clock for automatic time stamping of saved readings.
- Relative mode to remove test lead resistance from low ohms or capacitance measurements.
- True-RMS AC voltage and current for accurate measurements on non-linear signals.
- Measure up to 10 A (20 A for 30 seconds).
- 100 mF capacitance range.
- Peak capture to record transients as fast as 250 μ s.
- Premium test leads and alligator clips included.
- Amp jack plugs included.
- Optional magnetic hanger for easy setup and viewing while freeing your hands for other tasks.
- FlukeView forms enable you to document, store and analyze individual readings or a series of measurements, then convert them into professional-looking documents.
- Limited lifetime warranty.

Product overview: Fluke 289/ir3000 FC Kit



[Learn more about Fluke Connect](#)

Now compatible with Fluke Connect® Mobile App

Maximize productivity with the combined Fluke 289 and FlukeView® Forms Combo Kit. With built-in data logger and TrendCapture capability, the 289 helps you track down elusive, intermittent problems, monitoring equipment with any of its functions while you do other jobs. Using FlukeView Forms software allows you to overlay your logged data from six meters or six time periods to find cause and affect relationships or for condition monitoring. Turn your data into meaningful graphs and tables for a professional report or analyze individual readings or series of measurements.

The 289 is compatible with the Fluke ir3000 FC Infrared Connector, allowing you to share live measurements on your

iOS or Android smart device with the Fluke Connect mobile app. The 289/FVF combo kit, which now includes the ir3000 FC Connector, gives you a practical and affordable approach to predictive maintenance.

Specifications: Fluke 289/ir3000 FC Kit

Specifications		
Function	Range and Resolution	Basic Accuracy
DC volts	50.000 mV, 500.00 mV, 5.0000 V, 50.000 V,	0.025 %
AC volts	500.00 V, 1000.0 V	0.4 % (True-RMS)
DC current	500.00 μ A, 5000.0 μ A, 50.000 mA, 400.00 mA,	0.05 %
AC current	5.0000 A, 10.000 A	0.6 % (True-RMS)
Temperature (excluding probe)	-200.0 $^{\circ}$ C to 1350.0 $^{\circ}$ C (-328.0 $^{\circ}$ F to 2462.0 $^{\circ}$ F)	1.0 %
Resistance	500.00 Ω , 5.0000 k Ω , 50.000 k Ω , 500.00 k Ω , 5.0000 M Ω , 50.00 M Ω , 500.0 M Ω	0.05 %
Capacitance	1.000 nF, 10.00 nF, 100.0 nF, 1.000 μ F, 10.00 μ F, 100.0 μ F, 1000 μ F, 10.00 mF, 100 mF	1.0 %
Frequency	99.999 Hz, 999.99 Hz, 9.9999 kHz, 99.999 kHz, 999.99 kHz	0.005 % + 1
Connectivity	Optional infrared connector via Fluke ir3000 FC	
General Specifications		
Maximum voltage between any terminal and earth ground	1000 V	
Battery type	6 AA alkaline batteries, NEDA 15A IECLR6	
Battery life	100 hours minimum, 200 hours in logging mode	
Temperature	Operating: -20 $^{\circ}$ C to 55 $^{\circ}$ C; Storage: -40 $^{\circ}$ C to 60 $^{\circ}$ C	
Relative humidity	0 to 90 % (0 to 37 $^{\circ}$ C), 0 to 65 % (37 $^{\circ}$ C to 45 $^{\circ}$ C), 0 to 45 % (45 $^{\circ}$ C to 55 $^{\circ}$ C)	
Electromagnetic compatibility	EMC EN61326-1	
Vibration	Random vibration per MIL-PRF-28800F Class 2	
Shock	1 meter drop per IEC/EN 61010-1 3rd Edition	
Size (HxWxL)	22.2 cm x 10.2 cm x 6 cm (8.75 in x 4.03 in x 2.38 in)	
Weight	870.9 g (28 oz)	
Multiple on screen displays	Yes	
LoZ	Yes	
50 ohm range	Yes	
Filter for measurements on motor drives	Yes	
True-RMS AC bandwidth	100 kHz	
dBV/dBm	Yes	

DC mV resolution	1 μ V
Megohm range	Up to 500 M Ω
Conductance	50.00 nS
Continuity beeper	Yes
Temperature ($^{\circ}$ C and $^{\circ}$ F)	-200 $^{\circ}$ C to 1350 $^{\circ}$ C
Baery/fuse access	Yes/Yes
Elapse time clock	Yes
Time of day clock	Yes
Min-Max-Avg	Yes
Frequency	Yes
Duty cycle/pulse width	Yes
Info buon on board help	Yes
Hold	Yes
Isolated optical interface	Yes
Auto/touch hold	Yes
Reading memory	Yes
Log to PC	Yes
On board logging with TrendCapture	Yes
Logging memory up to	15,000 readings
Wireless connectivity (optional)	Yes

Ordering information



FLK-289/FVF/IR3000

289 Multimeter With Software And Wireless Connectivity Kit



Preventive maintenance simplified. Rework eliminated.

Save time and improve the reliability of your maintenance data by wirelessly syncing measurements using the Fluke Connect™ system.

- Eliminate data-entry errors by saving measurements directly from the tool and associating them with the work order, report or asset record.
- Maximize uptime and make confident maintenance decisions with data you can trust and trace.
- Access baseline, historical and current measurements by asset.
- Move away from clipboards, notebooks and multiple spreadsheets with a wireless one-step measurement transfer.
- Share your measurement data using ShareLive™ video calls and emails.

Find out more at flukeconnect.com



All trademarks are the property of their respective owners. WiFi or cellular service required to share data. Smartphone, wireless service and data plan not included with purchase. First 5 GB of storage is free. Phone support details can be viewed at fluke.com/phones.

Smart phone wireless service and data plan not included with purchase. Fluke Connect is not available in all countries.