

# Fluke Connect 789 ProcessMeter/ Temp Kit

## Now compatible with Fluke Connect<sup>™</sup> Mobile App

### Double your power.

The Fluke 789 ProcessMeter is the ultimate troubleshooting tool for electricians and instrumentation professionals, combining the functionality of a loop calibrator with the power of a digital multimeter. By equipping the 789 with a temperature measurement module and the wireless data logging capabilities of Fluke Connect<sup>™</sup> with ShareLive<sup>™</sup> video call, process technicians can now do a lot more while carrying a lot less. And with its built-in, selectable 250 ohm HART<sup>®</sup> resistor, it eliminates the need to carry a separate resistor with you.

Use the included FC Connector with the Fluke 789 and get the full benefits of the Fluke Connect<sup>™</sup> mobile app. Download it now and get started.

### Fluke 789 Temp Kit features

- Unique new wireless measurement logging capability
- Temperature measurement from -200 °C to 1372 °C using the t3000 FC
- 24 V Loop power supply
- HART mode setting with loop power (adds 250 ohm resistor)
- 100 % larger dual display
- 1200 ohm drive capability on mA source
- Enhanced backlight with two brightness settings
- 0 % to 100 % mA Span Check buttons to toggle between 4 and 20 mA
- Infrared I/O serial port compatible with FlukeView® Forms Software Version 2.1
- Externally accessible fuses for easy replacement



## **Technical Data**



#### See it. Save it. Share it. All the facts, right in the field.

Fluke Connect with ShareLive<sup>™</sup> video call is the only wireless measurement system that lets you stay in contact with your entire team without leaving the field. The Fluke Connect mobile app is available for Android<sup>™</sup> (4.3 and up) and iOS (4s and later) and works with over 20 different Fluke products—the largest suite of connected test tools in the world. And more are on the way. Go to the Fluke website to find out more.

Make the best decisions faster than ever before by viewing all temperature, mechanical, electrical and vibration measurements for each equipment asset in one place. Get started saving time and increasing your productivity.





# These 787 features are also included in the 789

- DMM designed to meet 1000 volt IEC 1010 CAT III standards
- Precision 1000 V, 440 mA true-rms digital multimeter
- Frequency measurement to 20 kHz
- Min/Max/Average/Hold/ Relative modes
- Diode test and continuity beeper
- Simultaneous mA and % of scale readout
- 20 mA dc current source/loop calibrator/ simulator
- Manual step (100 %, 25 %, Coarse, Fine) plus Auto Step and Auto Ramp
- Externally accessible battery for easy battery changes

Measurement function	Range and resolution	Best accu (% of reading	
V dc	400.0 mV, 4.000 V, 40.00 V, 400.0 V, 1000 V	0.1 % +	1
V ac (true-rms)	400.0 mV, 4.000 V, 40.00 V, 400.0 V, 1000 V	0.7 % +	2
mA dc	30.000 mA	.05 % + 2	
A dc	1.000 A (0.440 A continuous)	0.2 % +	2
A ac	1.000 A (0.440 A continuous)	1 % + 2	
Resistance	400.0 Ohms, 4.000 k, 40.00 k, 400.0 k, 4.0 M, 40 M	0.2 % + 1	
Frequency (0.5 Hz to 20 kHz)	199.99 Hz, 1999.9 Hz, 19.999 kHz	.005 % + 1	
Diode Test	2.000 V (shows diode voltage drop)	2 % + 1	
Continuity	Beeps for resistance < approx. 100 ohms		
Output function	Range and resolution	Drive capability	Accuracy (% of span)
DC Current Output (Internal battery operation)	0.000 to 20.000 mA or 4.000 to 20.000 mA (selectable at power-up) Over-range to 24.000 mA	24 V compliance, or, 1,200 Ohms,@ 20 mA	.05 %
DC Current Simulate (Ext. 24 Volt loop supply)	0.000 to 20.000 mA or 4.000 to 20.000 mA, (selectable at power-up) Over-range to 24.000 mA	1000 Ohms, @ 20 mA	.05 %
24 V Loop Supply	Minimum 24 V	250 Ohms @ 20 mA	> 24 V
Current Adjustment Modes	Manual: Coarse, Fine, 25 % and 100 % step Automatic: Slow Ramp, Fast Ramp, 25 % step		

Temperature range of 18 °C to 28 °C, for one year after calibration

General specifications		
Maximum voltage applied between any jack and earth ground	1000 V rms	
Storage temperature	-40 °C to 60 °C	
Operating temperature	-20 °C to 55 °C	
Temperature coefficient	0.05 x (specified accuracy) per °C (for temperatures < 18 °C or > 28 °C)	
Relative humidity	95 % up to 30 °C; 75 % up to 40 °C; 45 % up to 50 °C; 35 % up to 55 °C	
Vibration	Random, 2 g, 5-500 Hz	
Shock	1 meter drop test	
Safety	Designed in accordance with EN61010, ANSI/ISA S82.01-1994 and CAN/CSA C22.2 No. 10101-92 Over-voltage Category III	
Size (HxWxL)	50 mm x 100 mm x 203 mm (1.97 in x 3.94 in x 8.00 in)	
Weight	600 g (1.3 lb)	
Battery	Four AA alkaline batteries	
Battery life	140 hours typical (measurement), 10 hours typical (sourcing 12 mA)	
Warranty	Three years	

RF connection time (binding time) may take up to 1 minute.

### **Ordering information**

#### Model

FLUKE-789/T3000 FC Fluke Connect ProcessMeter/Temp Kit

#### Includes

789 ProcessMeter, T3000FC Wireless K-type temperature module, FLUKE-IR3000FC Connector, TL71 Premium Test Lead Set, AC72 Alligator Clips, four AA alkaline batteries (installed), users manual and quick reference guide

#### **Optional accessories**

IR3000FC Fluke Connect Infrared Connector 80T-IR Infrared Temperature Probe 80TK Thermocouple Module

80T-150U Universal Temperature Probe TL20/TL22/TL24/TL26/TL28/TL40A **Test Lead Sets** AC20/AC80 Clips **TP20** Industrial Test Probes 80i-400 AC Current Clamp\* i410 AC/DC Current Clamp\*\* i1010 AC/DC Current Clamp\*\* C25/C100 Cases 80K-6/80K-40 High Voltage Probes 85RF High Frequency Probes PV350 Pressure Vacuum Module FOM Fiber Optic Meter LPAK80-4 LockPak **TPAK** ToolPak Meter Hanging Kit

\*Above 50 A ac \*\*Above 1 A dc or 20 A ac

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# **Fluke Connect**

Part Number	Kit Contents
Fluke-789/IR3000FC	Fluke 789 ProcessMeter, IR3000FC Connector, AC175 Alligator Clips, 4x AA Alkaline Batteries and TL71 Test Lead Set.
Fluke-289/IR3000FC	Fluke 289 DMM, IR3000FC Connector
Fluke-287/IR3000FC	Fluke 287 DMM, IR3000FC Connector

For full specification see datasheet above

**Contact Information:** 

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