Fluke Connect
789 ProcessMeter/
Temp Kit

Now compatible with Fluke Connect™ 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™ with ShareLive™ video call, process technicians can now do a lot more while carrying a lot less. And with its built-in, selectable 250 ohm HART® 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™ 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

Built with FLUKE CONNECT™

See it. Save it. Share it.
All the facts, right in the field.
Fluke Connect with ShareLive™ 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™ (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.

Download the app at: [Android App Store] [iOS App Store]

Smart phone not included with purchase.
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

<table>
<thead>
<tr>
<th>Function</th>
<th>Range and resolution</th>
<th>Best accuracy (% of reading + LSD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>V dc</td>
<td>400.0 mV, 4.000 V, 40.00 V, 400.0 V, 1000 V</td>
<td>0.1 % + 1</td>
</tr>
<tr>
<td>V ac (true-rms)</td>
<td>400.0 mV, 4.000 V, 40.00 V, 400.0 V, 1000 V</td>
<td>0.7 % + 2</td>
</tr>
<tr>
<td>mA dc</td>
<td>30.000 mA</td>
<td>.05 % + 2</td>
</tr>
<tr>
<td>A dc</td>
<td>1.000 A (0.440 A continuous)</td>
<td>.2 % + 2</td>
</tr>
<tr>
<td>A ac</td>
<td>1.000 A (0.440 A continuous)</td>
<td>1 % + 2</td>
</tr>
<tr>
<td>Resistance</td>
<td>400.0 Ohms, 4.000 k, 40.00 k, 400.0 k, 4.0 M, 40 M</td>
<td>.2 % + 1</td>
</tr>
<tr>
<td>Frequency (0.5 Hz to 20 kHz)</td>
<td>199.99 Hz, 1999.9 Hz, 19.999 kHz</td>
<td>.005 % + 1</td>
</tr>
<tr>
<td>Diode Test</td>
<td>2.000 V (shows diode voltage drop)</td>
<td>2 % + 1</td>
</tr>
</tbody>
</table>

### Output function

<table>
<thead>
<tr>
<th>Function</th>
<th>Range and resolution</th>
<th>Drive capability</th>
<th>Accuracy (% of span)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Current Output (Internal battery operation)</td>
<td>0.000 to 20.000 mA or 4.000 to 20.000 mA (selectable at power-up) Over-range to 24.000 mA</td>
<td>24 V compliance, or, 1200 Ohms @ 20 mA</td>
<td>.05 %</td>
</tr>
<tr>
<td>DC Current Simulate (Ext. 24 Volt loop supply)</td>
<td>0.000 to 20.000 mA or 4.000 to 20.000 mA, (selectable at power-up) Over-range to 24.000 mA</td>
<td>1000 Ohms @ 20 mA</td>
<td>.05 %</td>
</tr>
<tr>
<td>24 V Loop Supply</td>
<td>Minimum 24 V</td>
<td>Minimum 24 V</td>
<td>&gt; 24 V</td>
</tr>
</tbody>
</table>

### Current Adjustment Modes
- Manual: Coarse, Fine, 25 % and 100 % step
- Automatic: Slow Ramp, Fast Ramp, 25 % step

### 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. 1010.1-92 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.