Fluke 715 mA Loop Calibrators

**Fluke 715 Volt/mA Calibrator**

**Volt Milliamp Calibrator to troubleshoot process loops**
The Fluke 715 Volt/mA Calibrator delivers outstanding performance, durability and reliability. Offered in the rugged Fluke 80 Series DMM package, the calibrator is compact, lightweight and easy to carry. With a push button interface similar to the multifunction Fluke 740 Series Documenting Process Calibrators, the 715 is easy to use. It is EMI tolerant, dust/splash resistant and features a removable battery door for quick battery changes. It features:

- Measure loop current (0 mA to 20 mA, 4 mA to 20 mA) signals with 0.01 % accuracy and 0.001 mA resolution
- Source precision voltage signals up to 20 V with 0.01 % accuracy
- Measure voltage output process signals from PLCs, transmitters
- Source or simulate 24 mA loop current
- 24 V loop supply with simultaneous current measurement

**Fluke 707 Loop Calibrator**

**The fastest, one-handed tool for loop checks**
The Fluke 707 Loop Calibrator is a high performance solution for calibration, repair and maintenance of current loops. The “Quick Click” knob makes it extremely fast and easy to use. It features:

- One handed user interface with “Quick Click” detented knob
- mA sourcing, simulation and measurement
- 0.015 % accuracy and 0.001 mA resolution
- Simultaneous mA and % of span display
- Selectable step or ramp outputs
- 24 V Loop supply with mA measure, including 250 Ω HART resistor
- 0 V dc to 28 V dc measurement to check Loop Voltage
- Removable battery door for quick battery replacement
- Compact case with protective holster
- Three-year warranty

**Fluke 705 Loop Calibrator**

**Low cost calibration muscle**
The Fluke 705 Loop Calibrator is a cost-effective, integrated solution for calibration, repair and maintenance of current loops. It features:

- mA sourcing, simulation and measurement
- 0.02 % accuracy and 0.001 mA resolution
- Simultaneous mA and % of span display
- Selectable step or ramp outputs
- 24 V Loop supply with mA measure
- 0 V dc to 28 V dc measurement to check Loop Voltage
- Removable battery door for quick battery replacement
- Compact case with protective holster
- Three-year warranty
**General Specifications:**

- **Maximum voltage:** 30 volts
- **Non-operating temperature:** –4 °C to 60 °C
- **Operating temperature:** –10 °C to 55 °C
- **Relative humidity:** 95 % (10 °C to 30 °C); 75 % (30 °C to 40 °C); 45 % (40 °C to 50 °C); 35 % (50 °C to 55 °C)
- **Operating altitude:** 3,000 m max
- **Shock:** 1 m drop test
- **Vibration:** Random, 2 g, 5 Hz to 500 Hz
- **Safety:** CSA C22.2 No. 1010.1:1992
- **EMC:** EN50082–1:1992 and EN55022:1994 Class B
- **Power:** 9 V battery ANSI/NEDA 1604A or IEC 6L619V alkaline; two batteries in 718
- **Warranty:** Three-years

<table>
<thead>
<tr>
<th>Functional Specifications:</th>
<th>Fluke 708 and 707</th>
<th>Fluke 715</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Voltage measurement</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Range</td>
<td>0 V to 28 V</td>
<td>0 mV to 200 mV / 0 V to 25 V</td>
</tr>
<tr>
<td>Resolution</td>
<td>1 mV</td>
<td>10 µV / 1 mV</td>
</tr>
<tr>
<td>Accuracy</td>
<td>705: 0.025 % Rdg + 1 counts 707, 707Ex: 0.015 % Rdg + 2 counts</td>
<td>0.01 % Rdg + 2 counts</td>
</tr>
<tr>
<td><strong>Current measurement</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Range</td>
<td>0 mA to 24 mA</td>
<td>0 mA to 24 mA</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.001 mA</td>
<td>0.001 mA</td>
</tr>
<tr>
<td>Accuracy</td>
<td>705: 0.02 % Rdg + 2 counts 707, 707Ex: 0.015 % Rdg + 2 counts</td>
<td>0.01 % + 2 counts</td>
</tr>
<tr>
<td><strong>Current sourcing</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Range</td>
<td>0 mA to 20 mA or 4 mA to 20 mA</td>
<td>0 mA to 20 mA or 4 mA to 20 mA</td>
</tr>
<tr>
<td>Accuracy</td>
<td>705: 0.02 % Rdg + 2 counts 707, 707Ex: 0.015 % Rdg + 2 counts</td>
<td>0.01 % Rdg + 2 counts</td>
</tr>
<tr>
<td>Drive capability</td>
<td>705: 1000 Ω @ 24 mA 707, 707Ex: 700 Ω @ 20 mA</td>
<td>1000 Ω @ 24 mA</td>
</tr>
<tr>
<td>Loop power while measuring mA</td>
<td>24 V</td>
<td>24 V</td>
</tr>
<tr>
<td>Voltage sourcing</td>
<td>n/a</td>
<td>0 mV to 200 mV or 0 V to 20 V</td>
</tr>
<tr>
<td>Display current and % of span</td>
<td>Yes</td>
<td>mA or %</td>
</tr>
<tr>
<td>Auto step, auto ramp</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Span Check</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Battery life</td>
<td>18 hours typical, at 12 mA</td>
<td>18 hours typical, at 12 mA</td>
</tr>
</tbody>
</table>

**Fluke. Keeping your world up and running.**

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