Fluke 772 and 773 Milliamp Process Clamp Meters

Use the Fluke 772 and 773 to:

• Measure 4 to 20 mA signals without “breaking the loop” just like the innovative and popular Fluke 771 Process Milliamp Clampmeter
• Source 4 to 20 mA signals for testing control system I/O or I/Ps
• Simulate 4 to 20 mA signals for testing control system I/O
• Measure 4 to 20 mA signals with in-circuit measurement
• Simultaneously measure mA in-circuit with 24 V loop power for powering and testing transmitters
• Source mA output signals in a linear ramp or 25 % step output
  – Automatically change the 4 to 20 mA output for remote testing
• Power saving features, auto-off, backlight timeout extend battery life

Fluke 773 features:

• DC voltage measurement to verify 24 V power supplies or voltage I/O signals
• Source dc voltage to test input devices that accept a 1 to 5 volt or 0 to 10 volt signal
• Scaled mA output provides a continuous mA signal that corresponds to the 4 to 20 mA signal measured by the mA clamp
  – Output mA signal enables a logging DMM (289) or other device to record the 4 to 20 mA signal without breaking the loop
• mA in/out: simultaneously measure the mA signal with the clamp and source a mA signal
  – Apply a mA input signal to a device and measure its’ 4 to 20 mA output on devices such as valves or mA isolators
• Voltage output linear ramp or 25 % step output
  – Automatically change the voltage output for remote testing
Functions

<table>
<thead>
<tr>
<th>mA measure w/jaw</th>
<th>mA measure in circuit</th>
<th>mA source</th>
<th>mA sim</th>
<th>Loop power 24 V</th>
<th>DCV source 0-10 V</th>
<th>DCV measure 0-30 V</th>
<th>Scaled mA output to mA input</th>
<th>mA in/out</th>
</tr>
</thead>
<tbody>
<tr>
<td>771</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>772</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>773</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Functional specifications

<table>
<thead>
<tr>
<th>Function</th>
<th>Resolution and range</th>
<th>Accuracy</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>771, 772, 773</td>
<td>0 to 20.99 mA</td>
<td>0.2 % + 5 counts</td>
<td>Measured by clamp</td>
</tr>
<tr>
<td></td>
<td>21.0 mA to 100.0 mA</td>
<td>1 % + 5 counts</td>
<td></td>
</tr>
<tr>
<td>772 and 773</td>
<td>0 to 24.00 mA</td>
<td>0.2 % + 2 counts</td>
<td>Measured in series with test jacks</td>
</tr>
<tr>
<td>772 and 773</td>
<td>0 to 24.00 mA</td>
<td>0.2 % + 2 counts</td>
<td>Maximum mA drive: 24 mA into 1,000 ohms</td>
</tr>
<tr>
<td>773</td>
<td>0 to 10.00 V dc</td>
<td>0.2 % + 2 counts</td>
<td>2 mA maximum drive current</td>
</tr>
<tr>
<td>773</td>
<td>0 to 30.00 V dc</td>
<td>0.2 % + 2 counts</td>
<td></td>
</tr>
</tbody>
</table>

General specifications 772 and 773 (see www.fluke.com/771 for more information on the Fluke 771 specifications)

Influence of earth’s field: < 0.12 mA
Battery: [4] 1.5 V, Alkaline, IEC LR6
Working hours: 12 hours @ 12 mA source into 500 ohms
Size (HxWxL): 772, 773: 41.3 mm x 76 mm x 248 mm (1.625 in x 3 in x 9.75 in) 771: 59 mm x 38 mm x 212 mm, (2.32 in x 1.5 in x 8.35 in)
Weight: 772, 773: 415 g (14 oz) 771: 260 g, (9.1 oz)
Operating temperature: -10 °C to 50 °C
Storage temperature: -25 °C to 60 °C
Operating humidity: < 90 % @ < 30 °C; < 75 % @ 30 ~ 55 °C
Operating altitude: 0 – 2,000 m
Storage altitude: None
IP rating: IP 40
Vibration requirements: Random 2 g, 5 Hz to 500 Hz
Drop test: Passes 1 meter drop test (except the jaw)
EMI, RFI, EMC: Meets applicable requirements in EN61326-1 Note: For current measurement w/jaw, add 1 mA to specification for EMC field strengths of 1 V/m up to 3 V/m
Temperature coefficients: 0.1%/°C x specified accuracy for temperature < 18 °C or > 28 °C
Warranty: Three-years, one-year on mA clamp assembly and cable

Ordering information

<table>
<thead>
<tr>
<th>Fluke-772</th>
<th>Milliamp Process Clamp Meter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluke-773</td>
<td>Milliamp Process Clamp Meter</td>
</tr>
</tbody>
</table>

Included accessories
Soft carrying case, test leads, alligator clips, hanging strap and user’s manual.

Fluke Corporation
PO Box 9090, Everett, WA 98206 U.S.A.
Fluke Europe B.V.
PO Box 1186, 5602 BD Eindhoven, The Netherlands

For more information call:
In the U.S.A. (800) 443-5853 or Fax (425) 446-5116
In Europe/M-East/Africa +31 (0) 40 2675 200 or Fax +31 (0) 40 2675 222
In Canada (800)-36-FLUKE or Fax (905) 890-6866
From other countries +1 (425) 446-5500 or Fax +1 (425) 446-5116
Web access: http://www.fluke.com

©2009 Fluke Corporation. Specifications subject to change without notice. Printed in U.S.A.

Modification of this document is not permitted without written permission from Fluke Corporation.