

# FLUKE®

## Fluke 772 and 773 Milliamp Process Clamp Meters

### Technical Data

**mA measurements  
without breaking  
the loop.  
Save time.  
Save money.**



#### 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**

	mA measure w/jaw	mA measure In circuit	mA source	mA sim	Loop power 24 V	DCV source 0-10 V	DCV measure 0-30 V	Scaled mA output to mA input	mA in/out
771	•								
772	•	•	•	•	•				
773	•	•	•	•	•	•	•	•	•

**Functional specifications**

	Function	Resolution and range	Accuracy	Notes
771, 772, 773	mA measurement	0 to 20.99 mA	0.2 % + 5 counts	Measured by clamp
		21.0 mA to 100.0 mA	1 % + 5 counts	
772 and 773	mA measurement	0 to 24.00 mA	0.2 % + 2 counts	Measured in series with test jacks
772 and 773	mA source	0 to 24.00 mA	0.2 % + 2 counts	Maximum mA drive: 24 mA into 1,000 ohms
772 and 773	mA simulate	0 to 24.00 mA	0.2 % + 2 counts	Maximum voltage 50 V dc
773	Voltage source	0 to 10.00 V dc	0.2 % + 2 counts	2 mA maximum drive current
773	Voltage measure	0 to 30.00 V dc	0.2 % + 2 counts	

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

<b>Influence of earth's field</b>	< 0.12 mA
<b>Battery</b>	(4) 1.5 V, Alkaline, IEC LR6
<b>Working hours</b>	12 hours @ 12 mA source into 500 ohms
<b>Size (HxWxL)</b>	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)
<b>Weight</b>	772, 773: 415 g (14 oz) 771: 260 g, (9.1 oz)
<b>Operating temperature</b>	-10 °C to 50 °C
<b>Storage temperature</b>	-25 °C to 60 °C
<b>Operating humidity</b>	< 90 % @ < 30 °C; < 75 % @ 30 ~ 55 °C
<b>Operating altitude</b>	0 ~ 2,000 m
<b>Storage altitude</b>	None
<b>IP rating</b>	IP 40
<b>Vibration requirements</b>	Random 2 g, 5 Hz to 500 Hz
<b>Drop test</b>	Passes 1 meter drop test (except the jaw)
<b>EMI, RFI, EMC</b>	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
<b>Temperature coefficients</b>	0.1%/°C x specified accuracy for temperature < 18 °C or > 28 °C
<b>Warranty</b>	Three-years, one-year on mA clamp assembly and cable



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

**Ordering information**

**Fluke-772** Milliamper Process Clamp Meter  
**Fluke-773** Milliamper Process Clamp Meter

**Included accessories**

Soft carrying case, test leads, alligator clips, hanging strap and user's manual.



772



773

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**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>

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