

TECHNICAL DATA

# Fluke 771 Milliamp Process Clamp Meter





## Key features

- Measures 4 to 20 mA signals without breaking the loop
- Best in class 0.2% accuracy
- Delivers 0.01 mA resolution and sensitivity
- Measures mA signals for PLC and control system analog I/O
- Detachable clamp for measurements in tight locations

## Product overview: Fluke 771 Milliamp Process Clamp Meter

Save time by measuring 4-20 mA signals without breaking the loop

The Fluke 771 delivers all the basic functionality you would expect in a milliamp clamp meter. It measures 4-20 mA signals without "breaking the loop," allowing you to measure low level DC current without having to take systems offline for troubleshooting, saving downtime and money. You can also use it to measure output signals from transmitters without breaking the loop when maintaining and troubleshooting process and automation equipment. This saves time and avoids disrupting critical processes so you can avoid expensive downtime. You can also measure 10 to 50 mA signals in older control systems using the 99.9 mA range.

### Added convenience

Designed to make troubleshooting easier, the Fluke 771 includes a detachable clamp that can be attached to the wire you're testing while you move the meter—connected by the extension cable—to a better viewing position. This is especially helpful for taking readings in tight locations. With the dual backlit display showing both the mA measurement and the percent of a 4 to 20 mA span you can quickly understand what your system is doing, and a built-in LED spotlight lets you illuminate hard to see wire in dark enclosures. You can also capture and display changing measurements using the Hold function making it easier to verify and record measurements.

## Specifications: Fluke 771 Milliamp Process Clamp Meter

Specifications	
Diameter of measurable conductor	0.177 in or 4.5 mm max
Operating temperature	-10 to 50°C
Storage temperature	-25 to 60°C
Operating humidity	< 90% @ < 30°C, < 75% @ 30 to 55°C
Operating altitude	0 to 2000 m
IP rating	IP 40
Size	59 x 38 x 212 mm (2.32 x 1.5 x 8.35 in)
Weight	260 G, (9.1 oz)
Vibration	Random 2 g, 5 to 500 Hz
Shock	1 m drop test (except the jaw)

EMI/RFI	Meets EN61326-1
	For current measurement w/ JAW, add 1 mA to specification for EMC field strengths of 1 V/m up to 3 V/m.
Temperature coefficient	0.01% °C (< 18°C or > 28°C)
Power, battery life	(2) AA 1.5 V Alkaline, IEC LR6, 40 hours typical
Warranty	Three years for electronics One year for cable and clamp assembly

### Functional Specifications

mA measurement (measured by clamp)	<b>Resolution / range</b>	0 to 20.99 mA
	Accuracy	0.2% + 2 counts
	Resolution / range	21.0mA to 100.0 mA
	Accuracy	1% + 5 counts

## Ordering information



### **Fluke 771**

Fluke 771 Milliamp Process Clamp Meter

---

Includes:

- Soft Carrying Case
  - Users Manual
-

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

**Fluke (UK) Ltd.**  
52 Hurricane Way  
Norwich, Norfolk  
NR6 6JB  
United Kingdom  
Tel.: +44 (0)20 7942 0708  
E-mail: [cs.uk@fluke.com](mailto:cs.uk@fluke.com)  
[www.fluke.com/en-gb](http://www.fluke.com/en-gb)

©2025 Fluke Corporation. All rights reserved.  
Data subject to alteration without notice.  
04/2025

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