

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<br>(< 18°C or > 28°C)  |                    |
| Power, battery life                   | (2) AA 1.5 V Alkaline, IEC LR6, 40 hours typical  |                    |
| Warranty                              | Three years for electronics<br>One year for cable and clamp assembly                                    |                    |
| Functional Specifications             |   |                    |
| mA measurement<br>(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

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