

Fluke 772 and 773 Milliamp Process Clamp Meters

Technical Data

Get more time.



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 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 % + 2 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

| | |
|-----------------------------------|--|
| 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 771: 59 mm x 38 mm x 212 mm |
| Weight | 772, 773: 415 g 771: 260 g |
| 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 |



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Ordering information

Fluke-772 Milliamp Process Clamp Meter
Fluke-773 Milliamp Process Clamp Meter

Included accessories

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



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 Pub_ID 11541-eng, rev 01

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