

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 21.0 mA to 100.0 mA	0.2 % + 5 counts 1 % + 5 counts	Measured by clamp
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 (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



Fluke. Keeping your world up and running.®

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.



772



773

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