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

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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 for more information on the Fluke 771 specifications)

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

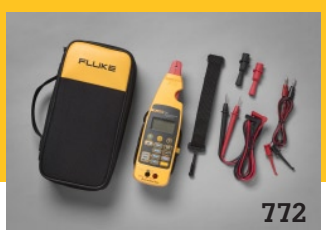


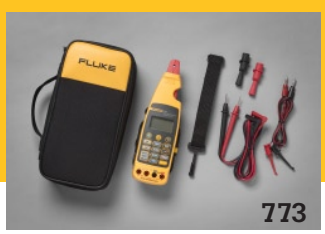
Fluke. *Keeping your world up and running.®*

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.





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