

TECHNICAL DATA

# Fluke 773 Milliamp Process Clamp Meter



## Key features

- Measure 4 to 20 mA signals without breaking the loop
- Source/simulate 4 to 20 mA signals and provide loop power
- Source/measure DC voltage to verify power supplies or I/O signals
- Best in class accuracy of 0.2%
- Delivers 0.01 mA resolution and sensitivity

## Product overview: Fluke 773 Milliamp Process Clamp Meter

Save time and money by measuring output signals without shutting down the system

The Fluke 773 milliamp clamp meter is accurate, versatile, and highly portable. It saves time and money by measuring 4–20 mA signals five times faster than with traditional multimeters, and without breaking the loop. That means you can troubleshoot a live device without having to power down and possibly miss something going on in the process.

The 773 is ideal for troubleshooting transmitters, valves, and programmable logic controllers (PLCs) found in process plants. The 773 allows you to connect to a mA loop in a traditional series workflow to measure, source, or simulate a control system. And it measures up to 99.0 mA non-contact, including 10 to 50 mA signals in older control systems.

The 773 also sources and measures DC voltage, so it can be used to troubleshoot voltage input and output devices that accept a 1-5 V or 0 to 10 V signal. You can detach the clamp section of the meter and use it as a remote jaw, connected to the main body by an extension cable to make it easier to take measurements in tight spaces.

## Work smarter with the 778 mA Clamp Meter

An integrated measurement spotlight allows you to illuminate hard to see wires in dark enclosures while a dual backlit display can show mA measurement and percent of 4 to 20 mA span simultaneously. Use the Hold function to capture measurements on-screen for verification and recording purposes. Plus, automatic power-off features save battery life so you can work longer without changing the batteries.

### Advanced loop troubleshooting

With the unique mA scale feature users can measure a mA signal without breaking the loop and output that signal to another device to record the measurements. The 773 also includes simultaneous mA in-circuit measurement with 24 V loop power for powering and testing transmitter. You can also apply a mA input signal to a device and measure its 4-20 mA output on devices such as valves or mA isolators. Offers mA or voltage output linear ramp or 25% step output.

## Specifications: Fluke 773 Milliamp Process Clamp Meter

Specifications		
Diameter of measurable conductor	0.177" 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	44 x 70 x 246 mm (2 7/8 x 5 3/4 x 11 5/8 in)	
Weight	410 g, (14.4 oz)	
Vibration	Random 2 g, 5 to 500 Hz	
Shock	1 meter drop test (except the jaw)	
EMI/RFI	Meets EN61326-1	
	For current measurement w/ JAW, add 1mA to specification for EMC field strengths of 1V/m up to 3V/m.	
Temperature coefficient	0.01% °C (< 18°C or > 28°C)	
Power, battery life	(4) AA 1.5 V Alkaline, IEC LR6, 12 hours in mA source into 500 ohms	
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% + 5 counts
	Resolution / range	21.0mA to 100.0 mA
	Accuracy	1% + 5 counts
mA measurement (measured in series with test jacks)	<b>Resolution / range</b>	0 to 24.00 mA
	Accuracy	0.2% + 2 counts



mA source (maximum mA drive: 24 mA into 1,000 ohms)	<b>Resolution / range</b>	0 to 24.00 mA
	Accuracy	0.2% + 2 counts
mA simulate (maximum voltage 50 V dc)	<b>Resolution / range</b>	0 to 24.00 mA
	Accuracy	0.2% + 2 counts
Voltage source (2 mA maximum drive current)	<b>Resolution / range</b>	0 to 10.00 V DC
	Accuracy	0.2% + 2 counts
Voltage measure	<b>Resolution / range</b>	0 to 30.00 V DC
	Accuracy	0.2% + 2 counts

## Ordering information



### Fluke 773

Fluke 773 Milliamp Process Clamp Meter

Includes:

- Four AA alkaline batteries (installed)
- Soft carrying case
- TL75 test leads
- AC 72 detachable clip
- TL 940 mini hook test leads
- Instruction sheet
- Hanging tool with hook and loop strap
- Fluke 773 Milliamp Process Clamp Meter

### Fluke 773 CAL

Fluke 773 Milliamp Process Clamp Meter, with a traceable certificate of calibration with data from Fluke

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- A traceable certificate of calibration with data from Fluke



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