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*Introducing the new:* Fluke 772 and Fluke 773 Milliamp Process Clamp Meters

#### Fluke-772 and 773 Designed to save time and money

- Measure mA signals without breaking the loop just like the Fluke-771
- Source and simulate mA signals
- Power loops with 24V loop supply and measure in circuit mA signals
- Source 0 to 10V to test devices with 1-5V or 0 to 10V inputs (773 only)
- Measure DCV for 1-5, 0 to 10 or 24V loop troubleshooting (773 only)
- Advanced 4 to 20 mA troubleshooting features (773 only)





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#### Fluke 770 Series of milliamp loop troubleshooting tools FLUKE

	Fluke-771	Fluke-772	Fluke-773	
Features	Measure 4 to 20 mA signals without breaking the loop	Find defective 4 to 20 mA signals and troubleshoot with mA source/simulate	Find bad mA loops, troubleshoot with mA source/simulate DCV Source and measure, advanced diagnostic features	Applications
mA measure, jaw	X	X	X	Find problems with 4 to 20 mA signals without breaking the loop.
mA measure, in circuit		X	X	Verify errors found in measured mA signals with in-line measurements
Loop power		X	X	Power a transmitter and measure mA signal. Substitution testing of installed 24V loop power supply
mA source/simulate	*	X	* X	Test suspected bad 4 to 20 mA automation and control I/O. Source signals to troubleshoot I/Ps and valves
DCV measure	Sal South		X	Test suspect 24V loop power supplies. Verify 1 to 5 V and 0 to 10 V automation signals
DCV source			X	Source 1 to 5 V and 0 to 10 V signals to test suspected I/O, chart recorders, other voltage input devices
mA scaled output	6 18 2	and long	X	Log non-contact measured mA signals with a separate logging tool such as a 289 DMM or DPC
mA in / out			X	Source 4 to 20 mA signals into valves and mA signal conditioners and simultaneously measure 4 to 20 mA positioning output signals.

# The 771, 772, 773 family, designed for instrumentation testing:



Instrumentation professionals working with mA control systems

- Process or instrumentation engineers
- Instrumentation or I&E technians
- Plant commissioning electricians and contractors

#### Troubleshoot and Commission

- Transmitters
- Valves, I/Ps, other 4-20 mA devices
- Analog I/O

# The 771, 772, 773 family, designed for testing automation I/O:



- Regional and factory specialists like Rockwell/Allen Bradley, Siemens. GE Fanuc, Honeywell, Yokogawa, ABB, etc
- In house control systems engineers
- Electrical contractors commissioning new process plants, electricians trained on PLCs
- Troubleshoot and Commission
- PLC Analog I/O
  DCS Analog I/O
  Quickly test analog I/O points. Often many thousands of measurement points per PLC or DCS system
- Building Automation and HVAC controls
  - Measure mA control signals on terminal blocks quickly without shutting down the system

## **Cost Justification, Cost Savings**

FLUKE ®

	Savings Per Occurrences p		Assumed Labor*	Total Monthly Savings		
Activity for Cost Savings	Occurrence	month	Cost/Hr	771	772	773
Time saved not having to remove a wire and break the loop for mA measurements	0.1 hour	25	\$75	\$188	\$188	\$188
Time saved not needing to call the control room to isolate a loop so the loop can be broken without process disruption	0.1 hour	10	\$150	\$150	\$150	\$150
Time saved testing analog I/O on a PLC not needing to check measurements on a console.	0.1 hour	20	\$75	\$150	\$150	\$150
Money saved by eliminating catastrophic plant outage caused by accidentally opening a critical loop	\$10,000 or more	0.01		\$100	\$100	\$100
Time saved by not having to return to the shop for a mA loop calibrator to troubleshoot a loop.	0.5 hour	6	\$75	\$0	\$225	\$225
Time saved troubleshooting devices with mA inputs and outputs.	0.5 hour	4	\$75	\$0	\$0	\$150
Repair of intermittent or erratic 4 to 20 mA loops	1 hour	1	\$75	\$0	\$0	\$75
Total monthly savings				\$588	\$813	\$1,038

\*Estimated US rate

### 771, 772, 773, features at a glance

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	Fluke-771	Fluke-772	Fluke-773
Positioning	Non-contact mA loop measurement	Integrated mA loop troubleshooting	Advanced process troubleshooting
mA measure, jaw	X	X	X
mA measure, in circuit		X	X
Loop power		X	X
mA source		X	X
DCV measure			x
DCV source			X
mA scaled output			X
mA in / out			X

### **Innovative new tools save time and money**

Fluke-772 and 773 mA Process Clamp Meters

# **Available now!**

#### • Fluke-771 includes:

Soft case and manual

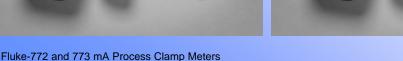
#### Fluke-772 includes:

- Soft case and manual
- Standard test leads with alligator clips \_
- Mini-grabber test lead set —
- Hanging tool with velcro strap \_

#### Fluke-773 includes:

- Soft case and manual
- Standard test leads with alligator clips \_
- Mini-grabber test lead set
- Hanging tool with velcro strap







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