

**FLUKE**®



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

# Fluke-772 and 773

## *Designed to save time and money*

FLUKE®

- 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)



*Save More Time!*

	Fluke-771	Fluke-772	Fluke-773	
<b>Features</b>	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	<b>Applications</b>
mA measure, jaw	<b>X</b>	<b>X</b>	<b>X</b>	Find problems with 4 to 20 mA signals without breaking the loop.
mA measure, in circuit		<b>X</b>	<b>X</b>	Verify errors found in measured mA signals with in-line measurements
Loop power		<b>X</b>	<b>X</b>	Power a transmitter and measure mA signal. Substitution testing of installed 24V loop power supply
mA source/simulate		<b>X</b>	<b>X</b>	Test suspected bad 4 to 20 mA automation and control I/O. Source signals to troubleshoot I/Ps and valves
DCV measure			<b>X</b>	Test suspect 24V loop power supplies. Verify 1 to 5 V and 0 to 10 V automation signals
DCV source			<b>X</b>	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			<b>X</b>	Log non-contact measured mA signals with a separate logging tool such as a 289 DMM or DPC
mA in / out			<b>X</b>	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:

FLUKE®

## Instrumentation professionals working with mA control systems

- Process or instrumentation engineers
- Instrumentation or I&E technicians
- 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:

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- 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
- Building Automation and HVAC controls
  - Measure mA control signals on terminal blocks quickly without shutting down the system

*Quickly test analog I/O points. Often many thousands of measurement points per PLC or DCS system*

# Cost Justification, Cost Savings



Activity for Cost Savings	Savings Per Occurrence	Occurrences per month	Assumed Labor* Cost/Hr	Total Monthly Savings		
				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
<b>Total monthly savings</b>				<b>\$588</b>	<b>\$813</b>	<b>\$1,038</b>

\*Estimated US rate

# 771, 772, 773, features at a glance

**FLUKE**®

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

**Innovative new tools save time and money**

# Available now!

FLUKE®

- 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



Fluke-772 and 773 mA Process Clamp Meters