

771/772/773 Milliamp Clamp Meter

The Fluke mA Clamp Meters will save you time and money. These charts show you how based on features/benefits and then in dollars and cents.

| Product category/ major features | General benefits | Specific benefits | Value | 771 | 772 | 773 |
|--|---|--|--|-----|-----|-----|
| Measure mA signals for PLC and control system analog I/O without breaking the loop | Measures low level dc current | Correlate process indication with real physical value | Saves process downtime—and money for automation professionals | • | • | • |
| Measure output signals from transmitters without breaking the loop | Maintain and troubleshoot process and automation equipment without breaking the loop | No disruption to the process | Saves process downtime—and money for instrumentation professionals | • | • | • |
| Detachable clamp with extension cable | Measurements in tight locations | Enables measurements in difficult situations | Measurements can be quickly carried out | • | • | • |
| Source, simulate and measure mA signals in circuit (break the loop) | Confirm non-contact measurement. Have the next tool in hand for troubleshooting (source simulate) | Eliminates need to return to shop to get a loop calibrator for troubleshooting after finding a bad signal with non-contact measurement | Helps speed up loop troubleshooting—saves time and money | | • | • |
| Source and measure V dc | Troubleshoot voltage input and output devices | Measure presence of 24 V loop power. Measure 1 to 5 or 0 to 10 V process signals. | Eliminates need to return to shop to get a voltage source tool or a DMM. Saves time and money. | | | • |
| 4 to 20 mA in/out | Dual channel mA source and measurement for troubleshooting | Source 4 to 20 mA signals into valves and signal conditioners and simultaneously measure 4 to 20 mA positioning output signals. | Quick troubleshooting of devices with mA inputs and outputs. Save time and money. | | | • |
| 4 to 20 mA scaled output | Scaled mA output provides a mA signal output representative of the measured mA value | Connect a logging DMM and log the mA signal without breaking the loop | Troubleshoot and document intermittent or erratic 4 to 20 mA loop signals. | | | • |
| Loop power supply | Power a transmitter | Substitute testing of the installed 24 V loop power supply. Power a transmitter and measure its mA output signal for troubleshooting. | Eliminates need to return to shop to get a power supply. Saves time and money. | | • | • |
| Dual backlit display with both mA measurement and percent of 4 to 20 mA span | Clear measurement presentation | Quick measurement evaluation | Saves time, saves money | • | • | • |
| Measurement Spotlight | Illuminates hard to see wires in dark enclosures | Measurement process is easier and quicker | Saves time | • | • | • |
| Measure up to 99.9 mA range non-contact | Wide range of measurements | Measures 10 to 50 mA signals in older control systems | Only one instrument needed for multiple applications | • | • | • |
| Automatic power off | After 15 minutes and 2 minute automatic off for backlight and spotlight | Saves battery life | Saves money on batteries | • | • | • |

In dollars and cents it doesn't take long to cover the cost of the tool



| Activity for cost savings | Savings per occurrence | Occurrences per month | Assumed labor* cost/hr | Total monthly savings | | |
|--|------------------------|-----------------------|------------------------|-----------------------|--------------|----------------|
| 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 |
| Totals | | | | \$588 | \$813 | \$1,038 |

*Estimated US rate

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