



**IKM Instrutek AS**

Elveveien 28 • 3262 Larvik  
Tlf. 33 16 57 00 • Faks 33 16 57 01  
IKMinstrutek@IKM.no • www.IKMinstrutek.no

**I·K·M**

**FLUKE®**

# Fluke 772 and 773 Milliamp Process Clamp Meters

## Technical Data

**Get more time.**



### 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 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



## 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 % + 2 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

|                            |  |
|----------------------------|--|
| 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<br>771: 59 mm x 38 mm x 212 mm  |
| Weight                     | 772, 773: 415 g 771: 260 g   |
| 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.



772



773

**Fluke Corporation**  
PO Box 9090, Everett, WA 98206 U.S.A.

**Fluke Europe B.V.**  
PO Box 1186, 5602 BD  
Eindhoven, The Netherlands

**For more information call:**  
In the U.S.A. (800) 443-5853 or  
Fax (425) 446-5116  
In Europe/M-East/Africa +31 (0) 40 2675 200 or  
Fax +31 (0) 40 2675 222  
In Canada (800)-36-FLUKE or  
Fax (905) 890-6866  
From other countries +1 (425) 446-5500 or  
Fax +1 (425) 446-5116  
Web access: <http://www.fluke.com>

©2009 Fluke Corporation. Specifications subject to change without notice.  
Pub\_ID 11541-eng, rev 01

Modification of this document is not permitted without written permission from Fluke Corporation.