

# METRACLIP<sup>®</sup> 60

## Digital Clip-On Ammeter

3-348-983-03  
2/7.00

### Clip Functions

- Alternating current measurement 10 mA ... 400.0 A
- 2 way clip sensor for cables of up to 24 mm diameter
- Highly accurate measurement of alternating current independent of position of conductor within the clip thanks to round clip sensor with compensation coils

### Multimeter Functions

- Alternating voltage measurement 100 mV ... 600 V
- Resistance measurement 0.1  $\Omega$  ... 4 M $\Omega$
- Continuity testing with acoustic signal

### Common Functions and Characteristics

- Easy to read 3¾ place digital display
- Automatic measuring range selection
- DATA HOLD and Maximum/Minimum display



## Features

### DATA HOLD Function

The current measurement value or MAX/MIN value can be "frozen" at the display.

### Storage of Maximum/Minimum Values

Minimum and maximum values can be displayed for long-term monitoring of measured quantities.

### Overrange Indication

Optical, and in some cases acoustic signals are generated if measuring ranges are exceeded.

### Battery Saver Circuit

If the function selector switch has not been activated for a period of 15 minutes, the instrument is automatically shut down.

## Applicable Regulations and Standards

IEC 61010-1/EN 61010-1/ VDE 0411-1	Safety requirements for electrical equipment for measurement, control and laboratory use
IEC 61010-2-032/ EN 61010-2-032/ VDE 0411-2-032	Special requirements for clip-on ammeters
EN 50081-1	Electromagnetic compatibility (EMC) Generic standard for interference emission
EN 50082-1	Electromagnetic compatibility (EMC) Generic standard for interference immunity

## Characteristic Values

Sampling Rate: 2.5/s

### Alternating Current, A AC

Meas. Range	Resolu- tion	Accuracy	Max. Input Current	Overload Capacity	
				Value	Duration
40.00 A	10 mA	$\pm (2\% + 7 \text{ digits})$	400 A (600 V, line)	1000 A AC	1 min.
400.0 A	100 mA	$\pm (2\% + 7 \text{ digits})$			

Frequency Range 50 ... 60 Hz

### Alternating Voltage, V AC

Measuring Range	Resolution	Accuracy	Max. Input Voltage	Overload Capacity	
				Value	Duration
400.0 V	100 mV	$\pm (1.0\% + 5 \text{ digits})$	600 V	1000 V AC	1 min.
600 V	1 V				

Frequency Range: 50 ... 400 Hz

### Resistance and Continuity Testing, $\Omega$

Meas. Range	Resolu- tion	Accuracy	No-Load Voltage	Test Current	Overload Capacity	
					Value	Duration
400.0 $\Omega$	0.1 $\Omega$	$\pm (1.5\% + 5 \text{ digits})$	prox. 3 V	max. 1.2 mA	350 V AC	1 min.
4000 k $\Omega$	1 $\Omega$					
•))	signal generated when $R < 500 \Omega$	prox. 0.7 V	max. 0.7 mA			

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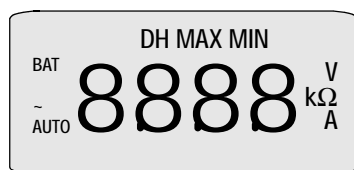
## Digital Clip-On Ammeter

### Reference Conditions

Ambient Temperature	+23 °C ±5 K
Temp. Coefficient	temperature x 0.1/ °C at 0 ... 18 °C and 28 ... 40 °C

### LCD

Display/Char. Height	7 segment characters / 8.8 mm
Number of Places	3¾



### Overflow Indication

The **OL** symbol is displayed if the measuring range is exceeded for all measuring functions. An acoustic signal is generated as well for the current and voltage measuring functions. The limit values for the triggering of warning signals are as follows:

-V: 631 V / -A: 431 A /  $\Omega$ : 4.301 k $\Omega$  /  $\bullet$ ): 4.30 k $\Omega$

### Power Supply

Batteries	2 ea. 1.5 V micro-cells (AAA, AM4) alkaline manganese per IEC 6LR03
Battery Service Life	with alkaline manganese cells: approx. 200 hours continuous operation, power consumption approx. 5 mW
Battery Test	<b>BAT</b> is automatically displayed when battery voltage has fallen below min. value.
Automatic Shut-Down	A current of 12 to 13 mA continues to flow in the battery saving mode, which corresponds to 0.01 mW power consumption.

### Electromagnetic Compatibility (EMC)

Interference Emission	EN 50081-1: 1992
Interference Immunity	EN 50082-1: 1992

### Electrical Safety

Protection Class	II per IEC 61010-1/EN 61010-1/VDE 0411-1
Overvoltage Category	III
Dielectric Strength	5.6 kV, 1 minute between input sockets and housing, and between input sockets and metal components

### Ambient Conditions

Operating Temp.	0 °C ... +40 °C
Storage Temperature	-10 °C ... +50 °C (without batteries)
Relative Humidity	max. 70%, no condensation
Elevation	to 2000 m

### Mechanical Design

Clip Opening	max. 24 mm
Dimensions	W x H x D: 69 mm x 191 mm x 33 mm
Weight	approx. 220 gr. with batteries

### Standard Equipment

- 1 clip-on ammeter with carrying strap
- 2 batteries, installed
- 1 holster (plastic)
- 1 operating instructions

### Order Information

Description	Type	Article Number
Digital Clip-On Ammeter	METRACLIP®60	M311C

See *Measuring Instruments and Testers catalog* for additional information concerning accessories.

Printed in Germany • Subject to change without notice.

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