

METRACLIP[®] 61

Digital Current Clamp Meter

3-349-174-03
5/4.17

- Measurement of leakage current and load current
- Display digital and via bargraph
- Two measuring ranges
convertible between 30 mA/300 mA and 30 A/300 A
- Insensitive to external magnetic fields
- Large clamp opening with a diameter of 40 mm
- Compact, handy und lightweight



Features

DATA HOLD Function

For measurements under unfavourable conditions, the momentary measured value can be „frozen“ at the display.

Signalling in the Event of Over-Ranging

There is an optical signal for over-ranging.

Battery Saving Circuit

The device turns itself off automatically 10 minutes after it has been switched on.

Characteristic Values

Alternating Current mA AC/A AC (Manually Selectable)

Measuring Range	Range of Application	Resolution	Accuracy
0 ... 30 mA 0 ... 300 mA	0 ... 300 mA	0.01 mA 0.1 mA	±1.2% rdg. ±5 digits
0 ... 30.00 A 0 ... 300.0 A	0 ... 200 A	0.01 A 0.1 A	±1.2% rdg. ±5 digits
	200 ... 250 A		±3% rdg. ±5 digits
	250 ... 300 A		±5% rdg. ±5 digits

Frequency range 50 ... 60 Hz
Measuring principle arithmetic mean

Applicable Regulations and Standards

IEC 61010-1/EN 61010-1/ VDE 0411-1	Safety requirements for electrical equipment for measurement, control and laboratory use
EN 60529 VDE 0470 Part 1	Test instruments and test procedures Protection provided by enclosures (IP code)
IEC 61326/EN 61326	Electromagnetic compatibility (EMC)

Reference Conditions

Ambient temperature +23 °C ±5 °C
Relative humidity max. 80%

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LCD Panel

Display	7-segment characters and bargraph
Number of digits	3½ digits, max. display: 3200
Sampling rate	Digital display: 2 per second Bargraph: 12 per second
Overflow display	OL appears
DATA HOLD display	DH appears

Power Supply

Batteries	2 x LR44 or SR44
Service life	with LR44 (alkaline manganese): approx. 50 hours (approx. 5 mW)
Battery test	 is displayed automatically if battery voltage drops to below approx. < 2.7 V.
Automatic shutdown	The device turns itself off automatically 10 minutes after it has been switched on.

Electrical Safety

Safety class	II per IEC 61010-1
Measuring category	II 600 V III 300 V
Dielectric strength	3.7 kV AC max. 1 minute between cable core and clip housing
Maximum voltage at the circuit under test	600 V AC

Electromagnetic Compatibility (EMC)

Interference emission	IEC 61236-1
Interference immunity	IEC 61236-1

Ambient Conditions

Operating temperatures	0 °C ... +40 °C
Storage temperatures	–10 °C ... +60 °C (without batteries)
Relative humidity	max. 80%, no condensation allowed
Elevation	up to 2000 m

Mechanical Design

Protection	IP 40
Clamp opening	max. diameter 40 mm
Dimensions	W x H x D: 64 mm x 176 mm x 23 mm
Weight	approx. 125 g with batteries

Standard Equipment

- 1 digital current clamp meter
- 2 button cells
- 1 Imitation leather pouch
- 1 Set of operating instructions

Order Information

Description	Type	Article Number
Digital current clamp meter	METRACLIP®61	M311D

Factory calibration certificate optionally available