

METRACLIP | 62

Clip-On Ammeter for the Measurement of Leakage and Charging Current

3-349-392-03

3/4.14

- 3 measuring ranges 1 mA ... 10 A AC TRMS / DC
- High resolution due to hall effect sensor
- Switch-over between DC and AC measurements
- Zero balancing for DC measurements
- Storage of reference values for AC measurements
- Display of maximum or minimum current measured value
- Storage of measured value (DATA HOLD)
- Battery saving circuit
- Insensitive to magnetic interference fields thanks to double shielding



Applications

- Measurement of leakage current at grounded conductors
- Measurement of leakage current at single-phase or 3-phase systems
- Measurement of line current
- Measurement of charging current

Applicable Regulations and Standards

IEC 61010-1/EN 61010-1/ VDE 0411-1	Safety requirements for electrical equipment for measurement, control and laboratory use – General requirements
EN 60529 VDE 0470 Part 1	Test instruments and test methods Degrees of protection provided by enclosures (IP code)
DIN EN 61326 VDE 0843 Part 20	Electrical equipment for measurement, control and laboratory use – EMC requirements

Characteristic Values

Measuring sensor Hall effect

Measuring Ranges

Meas. Range	Input	Resolution	Accuracy at 18 ... 28 °C, max. 80% relative humidity
A AC TRMS with automatic zero balancing			
200 mA	0 ... 199.9 mA	100 µA	±1.0% rdg. ±5 digits ¹⁾
2000 mA	0 ... 1999 mA	1 mA	±1.0% rdg. ±5 digits ¹⁾
10 A	0 ... 9.99 A	0.01 A	±1.0% rdg. ±10 digits ¹⁾
A DC with automatic zero balancing			
200 mA	0 ... 199.9 mA	100 µA	±1.0% rdg. ±3 digits ²⁾
2000 mA	0 ... 1999 mA	1 mA	±1.0% rdg. ±3 digits ²⁾
10 A	0 ... 9.99 A	0.01 A	±1.0% rdg. ±10 digits ²⁾

¹⁾ Frequency range: 50 ... 60 Hz, corner frequency 2 kHz

²⁾ additional error for hall effect due to hysteresis: 3% rdg.

Key: rdg. = measured value (reading)

Reference Conditions

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

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LCD

Display	7-segment characters
Number of places	3½ digits, max. display 1999
Sampling rate	Digital display: 1.6/s
Overflow display	OL appears
Display for DATA HOLD	DH appears

Power Supply

Batteries	2 x LR6 (AA size)
Service life	with alkaline-manganese batteries: approx. 120 hours
Battery test	Symbol B is displayed automatically if battery voltage is too low
Automatic shutdown	the device turns itself off automatically 10 minutes after it has been switched on.

Electrical Safety

Dielectric strength	2.3 kV AC max. 1 min between the clip jaws and the exposed clip housing
Measuring category	300 V CAT III 10 A

Electromagnetic Compatibility (EMC)

Interference emission/
interference immunity IEC 61326

Ambient Conditions

Operating temperatures	0 °C ... +50 °C < 80% humidity (no condensation allowed)
Storage temperatures	−20 °C ... +60 °C < 75% humidity (no condensation allowed) (without batteries)

Mechanical Design

Clip opening	max. dia. 18 mm
Dimensions	W x H x D: 76 mm x 194 mm x 30 mm
Weight	approx. 350 g with batteries

Standard Equipment

- 1 Clip-on ammeter
- 1 Imitation leather bag
- 1 Set of batteries
- 1 Operating instructions

Order Information

Description	Type	Article number
Digital clip-on ammeter	METRACLIP 62	M311F

Factory calibration certificate optionally available