

METRACLIP 41 / 410

AC / DC current clamps

3-349-590-03
5/7.14

- **METRACLIP 41:** suitable for automotive production, manufacturing, service as well as for 4 ... 20 mA in the industrial sector
- **METRACLIP 410:** suitable for application as a classic electrician's tool
- Opening angles of current clamp brackets
 - METRACLIP 41:** 25 mm dia.
 - METRACLIP 410:** 25 mm dia.
- TRMS reading
- Autoranging
- Measured value storage (DATA HOLD)
- Automatic zero balancing
- Auto Power Off
- Using advanced Hall Effect technology
- UL listed



Applications

The **METRACLIP 41/410**-current clamp meters have been designed for accurate, contactless measurement of AC and DC currents as well as for complex waveform currents.

Features

Power Saving Circuit

The devices are switched off automatically after 10 minutes if none of its keys has been activated during this time. Automatic shutdown can be deactivated.

DATA HOLD

The measured value can be retained in the display via the HOLD key.

Automatic Zero Balancing

By pressing the zero balancing key, the output voltage is automatically balanced to zero.

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 procedures Degrees of protection provided by enclosures (IP code)
EN 61010-2-032/ VDE 0411-2-032	Special requirements for current clamps
DIN EN 61326 VDE 0843, part 20	Electrical equipment for measurement, control and laboratory use – EMC requirements

Characteristic Values

	METRACLIP 41	METRACLIP 410
Measuring Range¹⁾	0 ... 4 ... 40 A	0 ... 100 ... 400 A
Resolution	... 4 A: 1 mA ... 40 A: 10 mA	... 40A: 10 mA ... 400A: 100 mA
Overload capacity (60 s)	200 A	600 A
General accuracy	±1% of rdg. ±5 D ²⁾	±1% of rdg. ±5 D
Temperature Coefficient	±0.1% of rdg./°C	
Frequency range	DC and 15 ... 400 Hz	

1) DC or AC_{pk}

2) Specification applicable for DC and 15 ... 200 Hz

General:

DC accuracy ±1% of rdg., ±5 digits

Operating voltage 300 V AC_{RMS} or DC

Key: rdg. = reading (measured value)

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Reference Conditions

Ambient temperature: 23 °C ±1 °C
Relative humidity: maximum 80% for temperatures up to 31°C decreasing linearly to 40% relative humidity at 50°C.
(no condensation allowed)

LCD Panel

Display 7-segment characters
Number of places 3½ digits, max. display 3999

Ambient Conditions

Operating temperature range -10 °C ... +50 °C
< 80% relative humidity
(no condensation allowed)
Storage temperature range with batteries removed -20 °C ... + 85 °C
Elevation max. 2000 m
Deployment indoors; outdoors only within specified ambient conditions

Power Supply

Batteries 9 V alkaline battery; PP3, MN1604 or IEC6LR61
Service life **METRACLIP 41**: approx. 15 hrs.
METRACLIP 410: approx. 50 hrs.
Automatic shutdown The device is switched off automatically after 10 minutes if none of its keys has been activated during this time. Automatic shutdown can be deactivated.

Electrical Safety

Measuring category CAT III 300 V
Pollution degree 2

Electromagnetic Compatibility (EMC)

Interference emission/
Interference immunity EN 61326-2-2:2006

Mechanical Design

Dimensions 193 mm x 64 mm x 31 mm
Weight approx. 235 g
Current clamp opening 25 mm dia.

Standard Equipment

- 1 AC / DC current clamp
- 1 9 V alkaline battery
- 1 Operating instructions

Accessory Case (not included)



Order Information

Description	Type	Article Number
AC / DC current clamp	METRACLIP 41 ^{1) 2)}	M320A
AC / DC current clamp	METRACLIP 410 ¹⁾	M320B
Tasche für METRACLIP 41/410	Case METRACLIP41_410	Z320A

- 1) Factory calibration certificate optionally available
- 2) DAKS calibration certificate optionally available