

# METRACLIP 41 / 410

## AC / DC current clamps

3-349-590-03  
8/12.16

- **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

<b>IEC 61010-1/EN 61010-1/ VDE 0411-1</b>	Safety requirements for electrical equipment for measurement, control and laboratory use – General requirements
<b>EN 60529 VDE 0470, part 1</b>	Test instruments and test procedures Degrees of protection provided by enclosures (IP code)
<b>EN 61010-2-032/ VDE 0411-2-032</b>	Special requirements for current clamps
<b>DIN EN 61326 VDE 0843, part 20</b>	Electrical equipment for measurement, control and laboratory use – EMC requirements

### Characteristic Values

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

1) DC or AC<sub>pk</sub>

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

General:

DC accuracy ±1% of rdg., ±5 digits

Operating voltage 300 V AC<sub>RMS</sub> 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 -25 °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 61326-2-2:2013

### Mechanical Design

Dimensions 193 mm x 64 mm x 31 mm  
Weight approx. 235 g  
Current clamp opening 25 mm dia.  
Protection IP40

### 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	<b>METRACLIP 41</b> <sup>1)</sup>	M320A
AC / DC current clamp	<b>METRACLIP 410</b> <sup>1)</sup>	M320B
Tasche für <b>METRACLIP 41/410</b>	Case_ <b>METRACLIP41_410</b>	Z320A

<sup>1)</sup> Factory calibration certificate optionally available

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