METRA CLIP 41 / 410
AC / DC current clamps

Applications
The METRA CLIP 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

<table>
<thead>
<tr>
<th>Standard</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEC 61010-1/EN 61010-1-VDE 0411-1</td>
<td>Safety requirements for electrical equipment for measurement, control and laboratory use – General requirements</td>
</tr>
<tr>
<td>EN 60529</td>
<td>Test instruments and test procedures Degrees of protection provided by enclosures (IP code)</td>
</tr>
<tr>
<td>VDE 0411-2-032</td>
<td>Special requirements for current clamps</td>
</tr>
<tr>
<td>DIN EN 61 326</td>
<td>Electrical equipment for measurement, control and laboratory use – EMC requirements</td>
</tr>
</tbody>
</table>

Characteristic Values

<table>
<thead>
<tr>
<th>Parameter</th>
<th>METRA CLIP 41</th>
<th>METRA CLIP 410</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring Range(^1)</td>
<td>0 ... 4 ... 40 A</td>
<td>0 ... 10 ... 400 A</td>
</tr>
<tr>
<td>Resolution</td>
<td>(\ldots) 4 A: 1 mA (\ldots) 40 A: 10 mA</td>
<td>(\ldots) 40 A: 10 mA (\ldots) 400 A: 100 mA</td>
</tr>
<tr>
<td>Overload capacity (60 s)</td>
<td>200 A</td>
<td>600 A</td>
</tr>
<tr>
<td>General accuracy</td>
<td>±1% of rdg., ±5 D (^2)</td>
<td>±1% of rdg., ±5 D</td>
</tr>
<tr>
<td>Temperature Coefficient</td>
<td>±0.1% of rdg./°C</td>
<td></td>
</tr>
<tr>
<td>Frequency range</td>
<td>DC and 15 ... 400 Hz</td>
<td></td>
</tr>
</tbody>
</table>

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)

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Type</th>
<th>Article Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC / DC current clamp</td>
<td>METRACLIP 41</td>
<td>M320A</td>
</tr>
<tr>
<td>AC / DC current clamp</td>
<td>METRACLIP 410</td>
<td>M320B</td>
</tr>
<tr>
<td>Tasche für METRACLIP 41/410</td>
<td>Case_METRACLIP41_410</td>
<td>Z320A</td>
</tr>
</tbody>
</table>

1) Factory calibration certificate optionally available

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GMC-I Messtechnik GmbH
Südwestpark 15
90449 Nürnberg • Germany
Phone: +49 911 8602-111
Fax: +49 911 8602-777
e-mail: info@gossenmetrawatt.com
www.gossenmetrawatt.com