



KIT 1 -FLEX-R45

KIT 1 -FLEX-R45, Flexible clamp

Code: M81611.

- > Length: 45 cm
- > Nr Sensors: 1
- > Usefull diam.(mm): 140
- > Measurement Range (A): 10 ... 100 A / 100 ... 1000 A / 1000 ... 10000 A
- > I Δ n min.(A): 1
- > I min: 1 | 10 | 500

Description

The flexible current sensor can take alternating current measurements from any installation with a full rejection of DC components, a very low consumption of power, with no saturation problems, a low temperature dependence and a very good linearity. The flexible sensor has been designed according to the Rogowsky coil principle, measuring alternating current irrespective of the position of the conductor. The current conductor must not be near the coil cable joint, since the degree of error increases in this area. Its centred location also reduces the impact of external magnetic fields. Thanks to the flexibility of the current sensor, one or more conductors can be surrounded, regardless of their shape, to perform current measurement actions.

Application

These flexible current sensors have been specially designed for the **MYeBOX-150** and **MYeBOX-1500** portable power analysers.



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Specifications

Environmental characteristics

| | |
|--|---|
| Protection class | IP 20 / IP 54 with terminal cover (optional) (for models Ø 85, 100, 116 mm) |
| Relative humidity (without condensation) | 15...85 % |
| Storage temperature | -40...85 °C |
| Working temperature | -20...85 °C |

Mechanical characteristics

| | |
|-------------|--|
| Envelope | sensor material: Self-extinguishing UNE 21031 90 °C / Material couplings: PA V-0 |
| Weight (kg) | 0,22 |

Specific technical characteristics of current sensors

| | |
|---|---------------------|
| External fields | ± 2 % |
| Maximum temperature coefficient | ± 0,05 % |
| Accuracy | ± 1 % |
| Linearity | (10...100%) ± 0,2 % |
| Position sensitivity (cable connection) | ± 3 % |
| Output voltage | 76 µV/A a 50 Hz |

Current measurement circuit

| | |
|-------------------|-------------|
| Nominal frequency | 50Hz/60 Hz. |
|-------------------|-------------|

Standards

| | |
|--|--|
| Electrical safety, Installation category | 1000V CAT III / 600V CAT IV |
| Electrical safety, Contamination level/class | Pollution resistance 2 |
| Standards | Dielectric strength IEC 61010-2-32 (5,4 kV 50 Hz) |

Electrical safety

| | |
|------------|---|
| Insulation | Double-insulated electric shock protection class II (IEC 61010-1) |
|------------|---|

FLEX-R

Flexible sensors for MYeBOX analysers

| CODE | TYPE | Measurement Range (A) | Nr Sensors |
|------------------------|-----------------|--|------------|
| Flexible Clamps | | | |
| M81611. | KIT 1 -FLEX-R45 | 10 ... 100 A / 100 ... 1000 A / 1000 ... 10000 A | 1 |
| M81631. | KIT 3 -FLEX-R45 | 10 ... 100 A / 100 ... 1000 A / 1000 ... 10000 A | 3 |
| M81641. | KIT 4-FLEX-R45 | 10 ... 100 A / 100 ... 1000 A / 1000 ... 10000 A | 4 |
| M81612. | KIT 1-FLEX-R80 | 10 ... 100 A / 100 ... 1000 A / 1000 ... 10000 A | 1 |



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| CODE | TYPE | Measurement Range (A) | Nr Sensors |
|---------|-----------------|--|------------|
| M81632. | KIT 3-FLEX-R80 | 10 ... 100 A / 100 ... 1000 A / 1000 ... 10000 A | 3 |
| M81642. | KIT 4-FLEX-R80 | 10 ... 100 A / 100 ... 1000 A / 1000 ... 10000 A | 4 |
| M81613. | KIT 1-FLEX-R120 | 10 ... 100 A / 100 ... 1000 A / 1000 ... 10000 A | 1 |
| M81633. | KIT 3-FLEX-R120 | 10 ... 100 A / 100 ... 1000 A / 1000 ... 10000 A | 3 |
| M81643. | KIT 4-FLEX-R120 | 10 ... 100 A / 100 ... 1000 A / 1000 ... 10000 A | 4 |

Includes 3 clamps (kit-3), amplifier and 9 V power supply