

## Description

MPU-1 is intended for monitoring (measurement) of leakage current in power networks of alternating current, low and medium voltage, and serves for performing measurements whose results determine the safety status of the monitored system from the perspective of flowing leakage current. The instrument enables setting of the safe threshold value of flowing leakage current, above which a visual and sound alarm is activated.

## Features

The most important features of the MPU-1 instrument include:

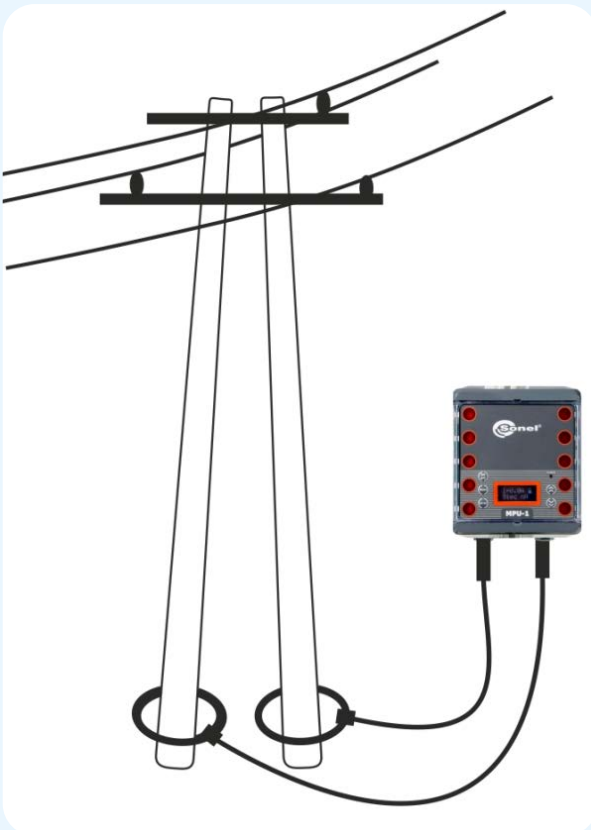
- continuous monitoring of alternating current flowing through earthing,
- measurement on one or two clamps simultaneously, in the case of measurement using two clamps, the current value is summed, and this provides the capability of measuring spun poles with independent clamps for each component pole,
- diode indicator of operating mode,
- alarm in the event of flow of current higher than the alarm threshold (factory setting 1 A), sound and visual alarm (speaker built into the housing),
- measurement with flexible Sonel F-series coil (Rogowski coil) with a max. length of 2 m,
- measurements in low- and medium-voltage networks with frequency of 50 Hz or 60 Hz,
- automatic selection of measuring range,
- monitoring of battery level,
- ergonomic operation.



The device shall be connected to measured power network or device



Device working with single clamp



Device working with two clamps



Inputs in MPU-1 signaler



Operation in medium-voltage mode - the display reads the value of the set alarm threshold and indicates the battery charge status



Operation in low-voltage mode - the display reads the value of the measured current flowing through the clamp and indicates the battery charge state

## Measurement of leakage currents

Display range	Resolution	Accuracy
0.1...9.9 A	0.1 A	±(5% m.v. + 2 digits)
10...299 A	1 A	

- frequency range: 50 Hz or 60 Hz
- flexible current coil – F-1A

## Other technical data

### Safety and work conditions

Ingress protection	IP67
Power supply	rechargeable battery pack SONEL NiMH 9.4 V 2.1 Ah
Parameters of battery charger power adapter	100...240 V / 50...60 Hz
Operating time for standby mode	>18 h
Operating time for alarm mode	>3 h
Alarm threshold setting range	0.5...9.9 A
Dimensions	125 x 150 x 95 mm
Weight	ca. 1.1 kg
Operating temperature	-10...+50°C
Charger operating temperature range	+10...+35°C
Storage temperature	-20...+80°C
Humidity	20...90%
Nominal humidity	40...60%
Nominal temperature	23 ± 2°C
Reference humidity	40%...60%

### Other information

Quality standard – development, design and production	ISO 9001
The product meets the EMC (emission for industrial environment) requirements according to standards	EN 61326-1 EN 61326-2-2

## Standard accessories



**Straps for mounting on the pole**

WAPOZOPAKPL



**Power supply adaptor**

WAZASZ11



**Mains cable with IEC C7 plug**

WAPRZLAD230



**L5 carrying case**

WAWALL5



**Factory calibration certificate**

## Optional accessories



**F-1A flexible clamp (Ø 360 mm)**

WACEGF1AOKR



**F-2A flexible clamp (Ø 235 mm)**

WACEGF2AOKR



**F-3A flexible clamp (Ø 120 mm)**

WACEGF3AOKR



**F-4 flexible clamp (Ø 630 mm)**

WACEGF4OKR



**Cable for battery charging from car cigarette lighter socket (12 V)**

WAPRZLAD12SAM



**Calibration certificate with accreditation**