

LEAKAGE CURRENT ALARM SIGNALER MPU-1



MPU-1 alarm signaler specification:

MPU-1 is dedicated to control (measure) leakage current in AC, low and medium voltage power networks. It is designed to make measurements, which results define network's safety condition for leakage current. The device enables to set limit for maximum safe value of flowing leakage current and for values above this limit visual and sound alarm is activated.

The most important features of MPU-1 are:

- constant controlling of current flowing on earthing,
- Measurement with the use of single clamp or two clamps simultaneously. In case of using two clamps, current value is summed up, which allows for checking twin pylons (rotational), with independent clamp for each component pylon,
- work mode LED indicator,
- Visual and sound alarm (speaker built in cover) in case of higher value of leakage current than defined limit (factory default set to 1A),
- No DC current measurement,
- Measurement with flexible clamps (Rogowski coil) – Sonel F series,
- Measurement in 50 Hz or 60 Hz frequency low and medium voltage networks,
- Auto ranging,
- Battery level monitoring,
- Ergonomic handling.
- MPU-1 for operation requires F1, F-2 or F-3 clamp (additional accessories).

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The device shall be connected to measured power network or device according to the pictures below:



Pic.1 Device working with single clamp.



Pic.2 Device working with two clamps.



Pic.3 Work in medium voltage mode – alarm limit value and battery level can be seen on the screen.



Pic.4 Work in low voltage mode – value of current measured with the clamp and battery level can be seen on the screen.



Pic.5 Inputs in MPU-1 signaler.

Standard accessories:

- Carrying case L5
- Power supply adaptor Z11
- Cable for charger
- Mounting strap

WAWALL5
WAZASZ11
WAPRZLAD230
WAPOZOPAKPL

Additional accessories:

- F-1 clamp (ø 38 cm) WACEGF10KR
- F-2 clamp (ø 25 cm) WACEGF20KR
- F-3 clamp (ø 12 cm) WACEGF30KR
- Lead for battery charging from socket of car lighter (12V) WAPRZLAD1212V2

Leakage current measurement with clamp:

Display range	Resolution	Accuracy
0.1..9.9A	0.01A	±(5% m.v. + 2 digits)
10..99A	0.1A	±(5% m.v. + 2 digits)

- frequency: 50Hz
- F-1 clamps

Technical specifications:

- Insulation type
- Measurement category
- degree of housing protection acc. to EN 60529 IP67
- max. noise voltage AC+DC, for which measurement is possible 24 V
- max. measured noise voltage 100 V
- power supply SONEL battery package NiMH 9,4V 2,4Ah
- operating time for standby mode >20h
- operating time for alarm mode >3h
- dimensions 125 x 150 x 95 mm
- weight (including battery) ok. 1,1 kg
- working temperature -10..+50 °C
- charger working temperature +10..+35 °C
- reference temperature 23 ±2 °C
- storage temperature -20..+80 °C
- relative humidity 20..85%
- relative nominal humidity 40..60%
- altitude (above sea level) <2000m
- quality standard design and manufacturing are ISO 9001 compliant
- the product meets EMC requirements (immunity for industrial environment) according to the following standards EN 61326-1:2006 and EN 61326-2-2:2006