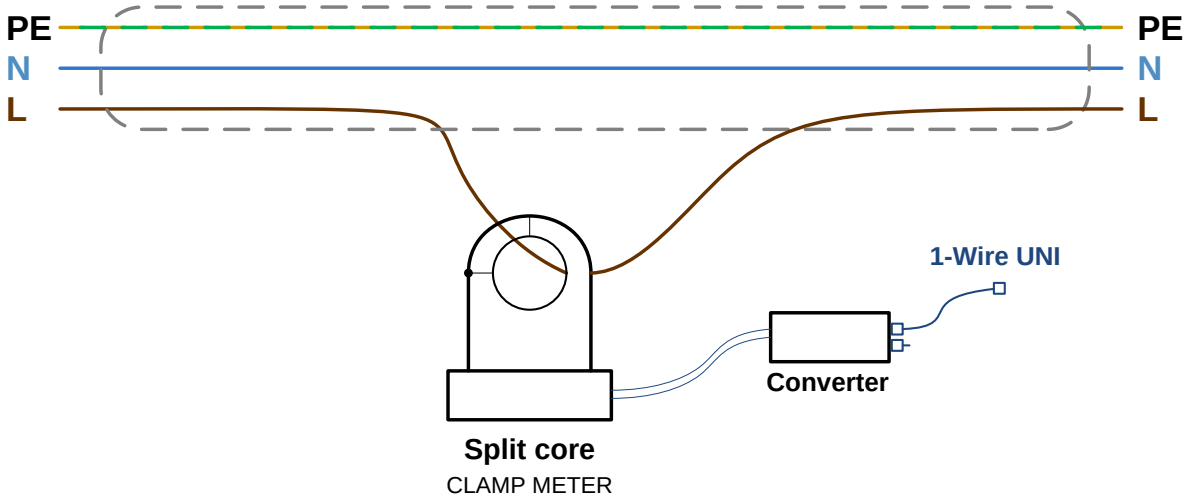
# 30A Current probe 1W-UNI 2:
# 0–30A sensor for indirect AC current measurements

*30A Current probe 1W-UNI 2 is a sensor for indirect (without cutting the wire), single-phase measurement of AC current up to 30A. The split-core current transducer can be opened in order to insert a line wire. The sensor is suitable for monitoring power consumption of racks, BTS's or server rooms.*

Together with a Poseidon unit, the sensor can serve as an early warning system against overloading the electricity supply or its individual lines. 30A Current probe 1W-UNI 2 consists of a clamp-on current transducer (CLAMP METER) and a 1-Wire converter unit.

## Usage




- The current transducer ("CLAMP METER") clamps around the line (L) or neutral (N) wire carrying the measured current.
- ***The wire under measurement must be insulated!***
- The "CLAMP METER" and "Converter" must be connected using a double insulated wire.

To insert the wire for measuring, unlock the clamp-on core and **insert one live wire**. Then, close the core and engage the lock.

***Note***: *Inserting two or more wires makes the measurement impossible.*
*The wire must lead freely through the core. Do not wrap the wire around the core.*

## Basic features:


- **Current range of the transducer**: 0–30A
- **Measurement accuracy**: 2%
- **Electrical isolation**: The 1-Wire UNI bus is electrically isolated from the measured circuit.
- **A/D converter resolution**: 16 bits
- **Display resolution**: 0.1A
- **Measured voltage**: max. 400V
- Measurement without cutting the measured wire
- **Operating temperature/humidity**: 0°C to 40°C (32°F to 104°F), RH < 80%
- Storage temperature/humidity: -10°C to +50°C (14°F to 122°F), RH < 70%
- The length of lead wire between the transformer and converter: 1m

## Connecting the converter

The current transducer is connected to the 1-Wire UNI converter with a two-wire, double insulated cable.

*Current Transformer includes connected Converter with cable length 1m. This cable can't be prolonged. Current Transformer and 1-Wire convertor are for higher accuracy reasons adapted to each other and are not exchangeable.*

| Versions and related products | |
|---|---|
| **30A Current probe 1W-UNI 2** | 0–30A AC sensor, RJ11 (1Wire UNI) bus. |
| **Sensor 4-20mA 1W-UNI** | 0–20mA DC sensor, RJ11 (1Wire UNI) bus. |
| **Sensor 0-20mA 1W-UNI** | 4–20mA DC sensor (powering the probe), RJ11 (1Wire UNI) bus. |
| **Sensor 60V 1W-UNI v2** | 0–60V DC sensor, RJ11 (1Wire UNI) bus. |
| **100A DC Current probe 1W-UNI** | 0–60V DC sensor, RJ11 (1Wire UNI) bus. |

# Package contents

A complete shipment contains the following items:

- Split-core, clamp-on current transducer
- 1-Wire UNI converter
- Printed manual

# Safety information

The device complies with regulations and industrial standards in force in the Czech Republic and the European Union. The device has been tested and is supplied in working order. To keep the device in this condition, it is necessary to adhere to the following safety and maintenance instructions.

**Using the device in a manner other than recommended by the manufacturer may cause its internal protection to fail!**

**The wire under measurement must be insulated! The supply cable of the measured device must be double insulated.**

**The device must not be used under any of the following conditions:**

- The device is noticeably damaged
- The device does not function properly
- Unfastened parts can move inside the device
- The device has been exposed to moisture or rain
- The device has been serviced by unauthorized personnel
- The power adapter or power supply cable are noticeably damaged
- If the device is used in a manner other than designed for, the protection provided by the device may fail.
- The electrical system must include a power switch or a circuit breaker and overcurrent protection.

The manufacturer warrants the device only if it is powered by the supplied power adapter or an approved power supply.

If you have any problems with installing or operating the device, you may contact technical support: When contacting technical support, please mention the exact type of your device (at the type plate).