

## About the product

The Loxone Energy Meter for DIN rail mounting features MID certified bidirectional Energy metering for up to 100A. The measured values can be used for energy management, consumption data collection and much more.

### Features:

- MID certified
- Tree Interface for easy installation
- Bidirectional Energy metering
- Configurable wiring direction
- Fully integrated Meter function block
- Display for meter reading and power

### AC Mains Terminals

Wire cross-section	1,5...25mm <sup>2</sup> / AWG16...3 *
Stripping length	14...15mm / 0.55...0.59"
Tightening torque	3 N.m / 2.21 lbf.ft
Screw drive	Pozidriv 2 (PZ2)

\* ferrules required for fine-stranded conductors

### 24VDC & Loxone Tree Terminals

Wire cross-section	0.28...0.8mm <sup>2</sup> / AWG23...18
Stripping length	5...6mm / 0.2...0.24"
Temperature resistance	-40...105 °C / -40...221°F



For more information  
about this product, visit  
[loxone.com/EnergyMeter1phTree](https://loxone.com/EnergyMeter1phTree)

V080224

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For additional information,  
declaration of conformity, visit  
[www.loxone.com/datasheets](https://www.loxone.com/datasheets)



Intertek

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# Energy Meter 1-Phase Tree

Part No.: 100566

LOXONE



## AC Supply & Power

Voltage	100 ... 276V, 50/60Hz
Current	max. 100A
Power Consumption	0.3W
Power loss at max. load	2W (at 100A)

For the rated operating conditions according to MID see datasheet.

## Measurement Range

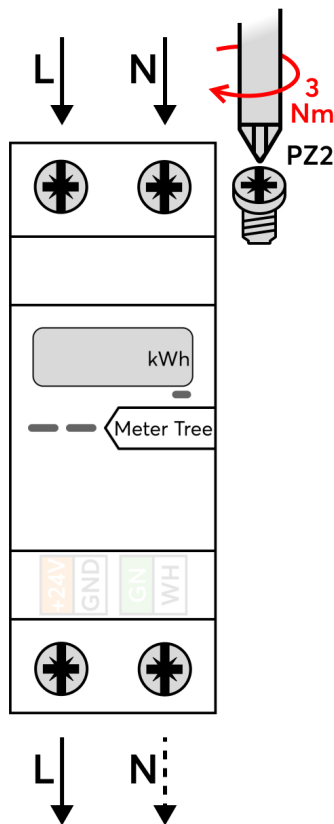
Power	0.01...99.9 kW / kVA <sub>r</sub> / kVA
Energy	0...999999 kWh / kVA <sub>r</sub> h consumption and delivery
Voltage	100...276VAC
Current	0.05...100A
Frequency	49...61 Hz
Accuracy (Active Energy)	Class B EN50470 / Class 1 IEC62053

For the specified accuracy of all values see datasheet.

## Ambient Conditions

Temperature	-40...70°C / -40...158°F
Humidity	max. 90% r.H. (non condensing)
Ingress Protection	IP20

## Mains connection



### Safety Instructions



Installation must be carried out by a qualified electrician in accordance with the applicable regulations. The device has to be fitted in accordance with building regulations for electrical and fire safety. This requires an installation box or additional enclosure. The device is free of maintenance and must only be cleaned with a dry cloth. The device must not be used as part of safety-critical systems. Opening the device, or damaging the device's seal, will result in the loss of MID certification and warranty.

### Declaration of conformity

Hereby, Loxone Electronics GmbH declares that the device Energy Meter Tree is in compliance with Directive 2014/32/EU. The full text of the **EU declaration of conformity** is available at the following internet address:  
[www.loxone.com/ce100566](http://www.loxone.com/ce100566)

## Tree connection

