

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
- Supports metering of individual phases (not for 3P3W)
- Display for meter reading and power

AC Mains Terminals

Wire cross-section	1.5...25mm ² / 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 ² / AWG23...18
Stripping length	5...6mm / 0.2...0.24"
Temperature resistance	-40...105 °C / -40...221°F

AC Supply & Power

Voltage	100 ... 480V, 50/60Hz
Current	max. 100A (per phase)
Power Consumption	0.4W
Power loss at max. load	2W per Phase (at 100A)

For the rated operating conditions according to MID see datasheet.

Measurement Range

Power	0.01...99.9 kW / kVA / kVA
Energy	0..999999 kWh / kVAh consumption and delivery
Voltage	100...480VAC
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



For more information
about this product, visit
loxone.com/EnergyMeter3phTree

V080224

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For additional information,
declaration of conformity, visit
www.loxone.com/datasheets

RECOGNIZED
COMPONENT



Intertek

Need Help?
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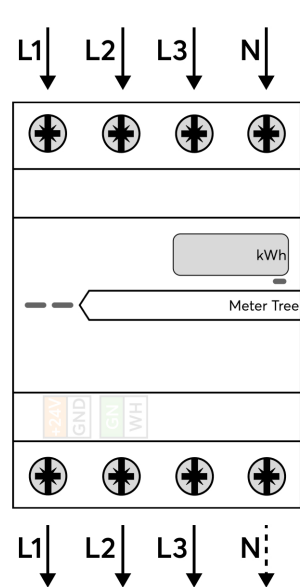
Energy Meter 3-Phase Tree

Part No.: 100567

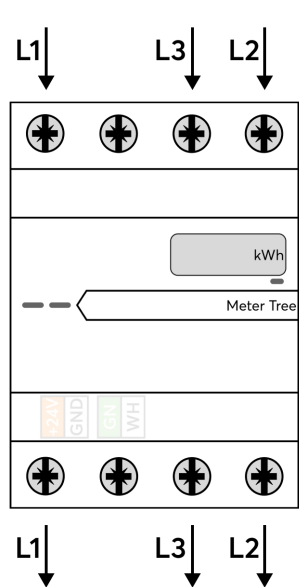


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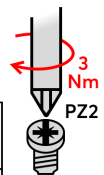
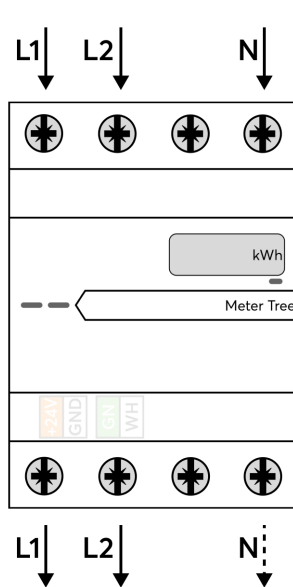
3P4W 3 Phases and Neutral



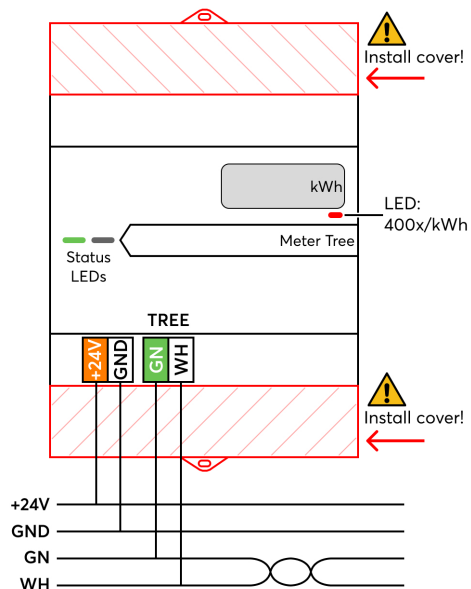
3P3W 3 Phases no Neutral (single phase metering not available)



1P3W Split phase System (North America)



Tree 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/ce100567