24 VDC Input

Voltage	10 ... 30 VDC
Current	8 mA
Power consumption	< 0.2 W
Power loss at max. load	0.3 W

Measurement Range

Power	0.01 ... 999.9 kW / kVAr / kVA
Energy	0 ... 999999.9 kWh / kVArh consumption and delivery
Voltage	100 ... 277 VAC
Current	max. 6 A
Frequency	45 ... 60 Hz
Accuracy (Active Energy)	Class C EN50470 / Class 2 IEC62053 / Class 0.5 ANSI C12.1

For the specified accuracy of all values see datasheet.

Loxone Tree Interface

Tree Interface	connection with Miniserver / Tree Extension

Ambient Conditions

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

Connecting Terminals

Current & Voltage Inputs

Wire cross-section	0.5 ... 1.5 mm² / AWG 22 ... 14
Stripping length	6 ... 7 mm / 0.24 ... 0.28"
Tightening torque	0.6 N.m / 0.44 lbf.ft
Slotted screwdriver	0.5 × 3.5 mm

* ferrules required for fine-stranded conductors

24 VDC & Loxone Tree

Wire cross-section	0.28 ... 0.8 mm² / AWG 23 ... 18
Stripping length	5 ... 6 mm / 0.2 ... 0.24"
Temperature resistance	-40 ... 105 °C / -40 ... 221 °F

For more information about this product, visit
loxone.com/help/EnergyMeter-1-5ACT-Tree

V081025

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

Intertek

Need Help?
loxone.com/support

Energy Meter for 1&5A Current Transformers Tree

Part No.: 100652

MID

About the product

This compact, DIN rail-mounted, MID-certified energy meter enables bidirectional measurement using three external 1 A or 5 A current transformers of your choice. It offers instant power outage detection and is ideal for energy management and monitoring in commercial and industrial settings.

Features:

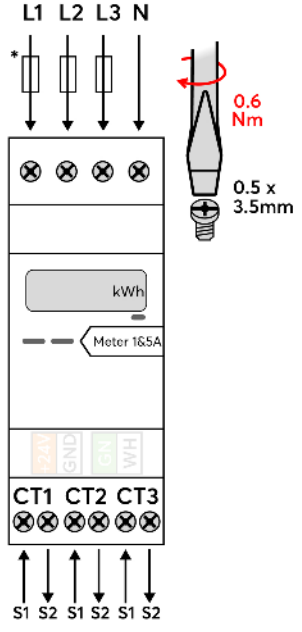
- MID certified & ANSI Accuracy Class 0.5
- Tree interface for easy installation
- Bidirectional energy metering
- Minimal installation footprint
- Fully integrated Meter function block
- Instant power outage detection
- Configurable Primary up to 1999 A (@ 1 A secondary), up to 9999 A (@ 5 A secondary)

AC / Voltage Inputs (mains)

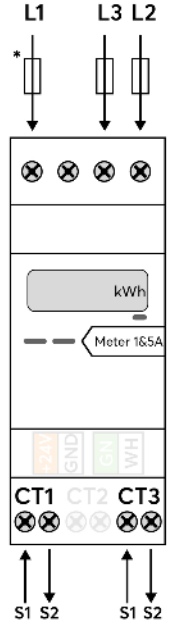
Voltage	100 ... 480 VAC, 50/60 Hz
Current	4 mA
Power consumption	≤ 0.6 W
Power loss at max. load	≤ 2 W

For the rated operating conditions according to MID see datasheet.

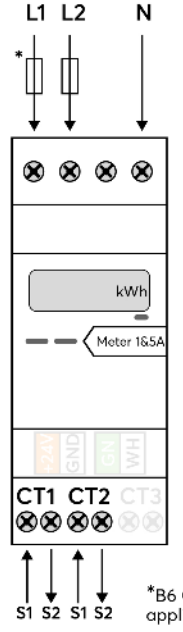
3P4W (3CTs)
3 Phases and Neutral



3P3W (2CTs)
3 Phases no Neutral
Only for grid systems without N!



1P3W (2CT)
Split phase System
(North America)



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 for 1&5A Current Transformers 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/ce100652**

*B6 Circuit Breaker recommended, applicable regulations must be observed

Tree connection

