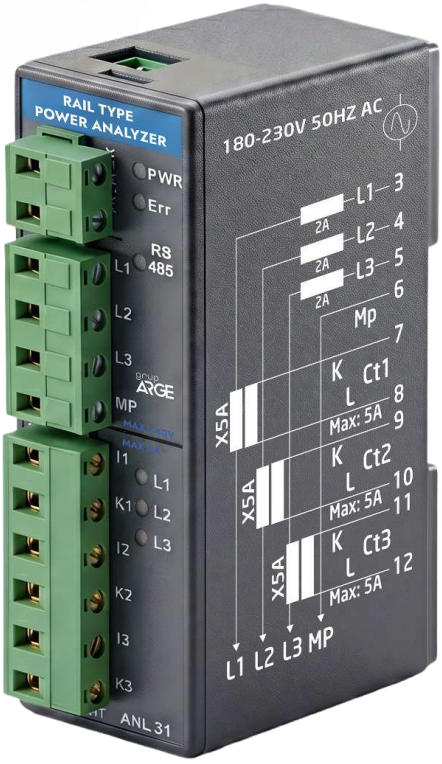
Rail Type
Power Analyzer
Datasheet



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V.25.1

1. INTRODUCTION

1.1. General Features

The Rail Type Power Analyzer allows you to measure and monitor 3-phase current, phase-neutral and phase-phase voltages, frequency, active and reactive powers, angle difference between current and voltage, power factor values. In addition, it reads and records active and reactive energies.

Demand and peak values for these measured quantities can also be monitored. Many necessary adjustments related to the device (Current Transformer, Voltage Transformer etc.) can be made via www.enerjitakibi.com.

All read parameters can be monitored remotely via standard MODBUS protocol and various adjustments can be made.

1.2 Technical Features

- Microprocessor based.
- It supports RS-485 Standard Modbus RTU protocol communication channel.
- The operating ambient temperature of the device is between -10 ÁC and+55 ÁC.
- The power consumption of measuring input is under 1 VA.
- The line voltage between phase-phase can be adjusted between 190-36200 V.
- The measurement voltage between phase-phase is between 100-480 V AC (45-65 Hz) and the measurement voltage between phase-neutral is 10-280 V AC (45-65 Hz).
- The current transformer ratio can be adjusted between 5/5 and 10000/5.
- Optionally, it can be used with CT30 type current transformers.
- The working frequency is 45-65 Hz.
- Minimum measurement values are 2 mA and 10 V.
- The measurement precision is %1.

- It periodically records the peak values of energy, demand and all parameters in non-volatile memory. Even if the energy is cut off, it continues to record the values where it left when the device is open again.
- Demand measurement time can be adjusted to between 1-60 minutes.
- Active, reactive powers and all electrical parameters can be monitored remotely through RS-485 communication channel.
- Energy, demand and peak values of all parameters can be reset via www.enerjitakibi.com via our technical support team.
- Rail Type Power Analyzer power consumption is in the range of 1.7-2.5 VA.
- Rail Type Power Analyzer can be mounted on the rail inside the panel.
- Device dimensions are 36 x 109 x 70.75 mm.
- Rail Type Power Analyzer operates under 180-230 V AC voltage.
- Rail Type Power Analyzer has IP40 protection class.
- Rail Type Power Analyzer has LEDs indicating POWER (Power), RS-485 (Communication), L1-L2-L3 and error conditions.

1.3. Technical Drawing

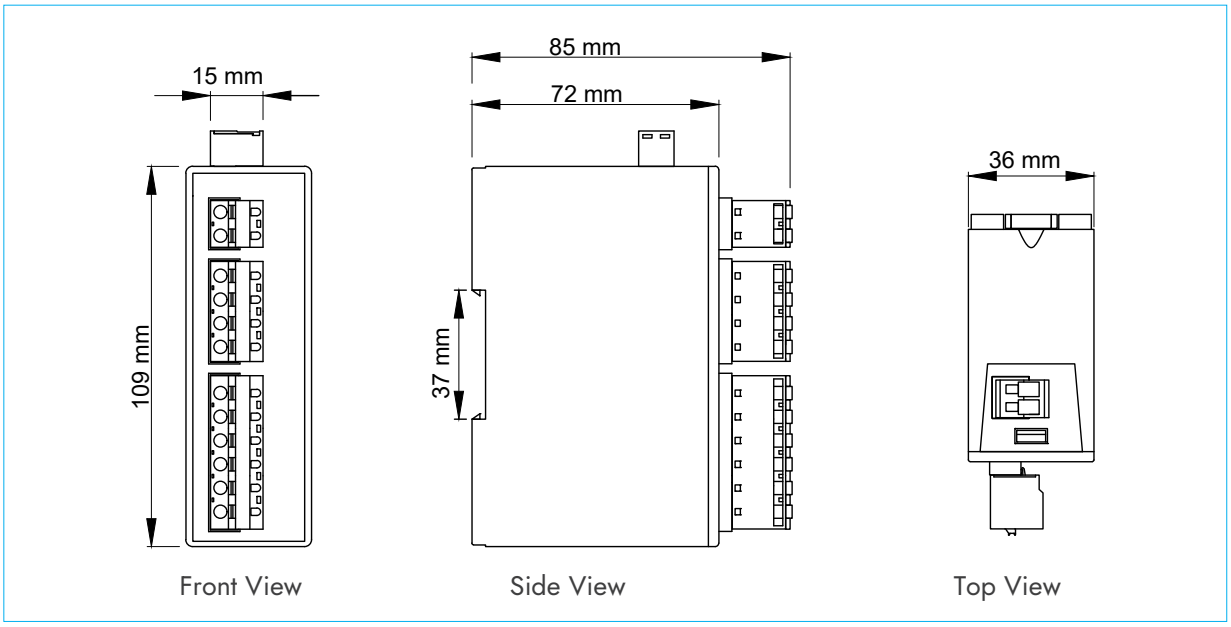


Figure 1.1

1.4. Connection Diagram

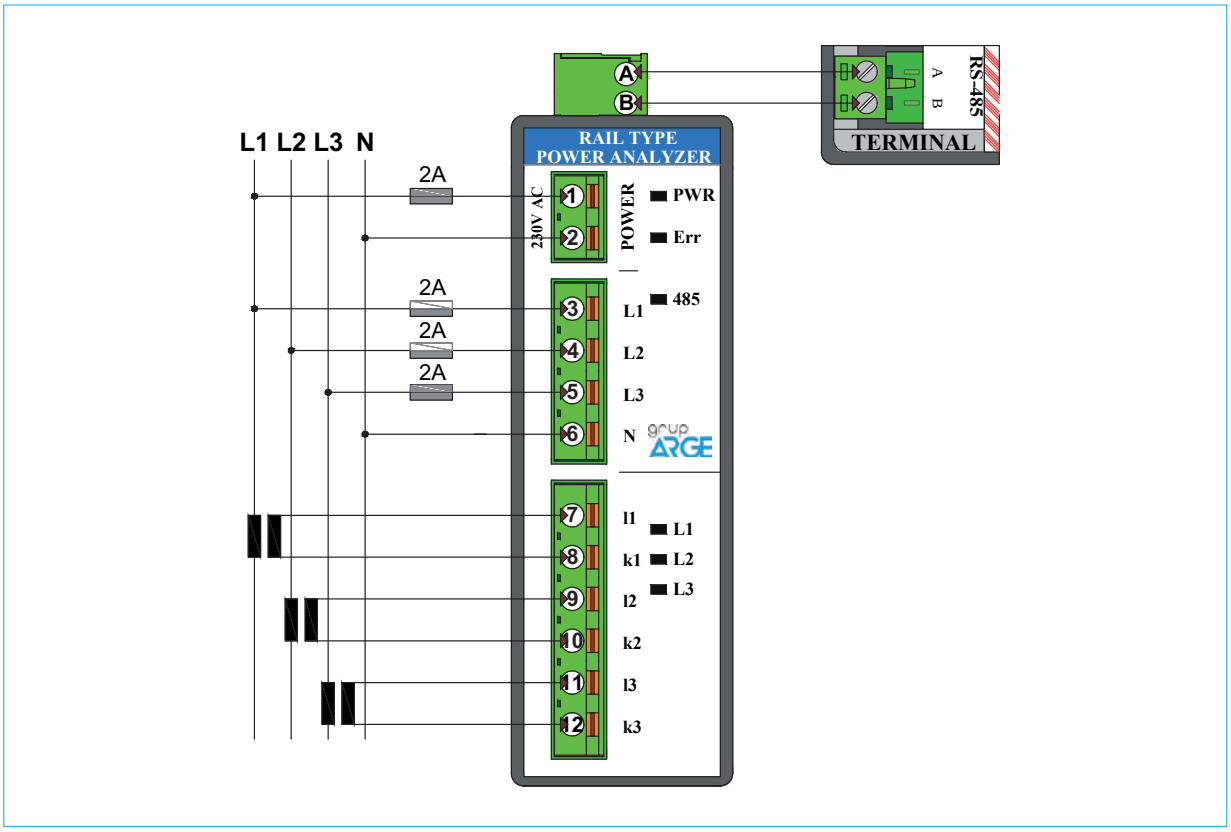


Figure 1.2