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Enermet ET50 PLC Terminal

Enermet ET50 is the most versatile PLC terminal available for multi-energy. It covers three different use purposes in one compact device. There are four S0 channels for connecting electricity, water and gas meters and one M-Bus interface for connecting for example heat meters. Two relays make ET50 a fl exible control tool in a metering system.

Leading technology

Enermet ET50 communication technologies are based on open standards which make it easy and reliable to use and ensures compatibility with future development. Enermet has a long and successful history in utilizing power line communication. The ET50 LV PLC communication is based on LonTalk® protocol and LONWORKS®.

The four S0 inputs provide a simple and cost-efficient way to introduce devices into the AMR system and M-Bus is also widely used in metering devices. The ET50 M-bus interface offers a fl exible way to collect district heating meter values with selection of 16 variables.

Easy deployment

The Enermet ET50 can be installed on the terminal block of DIN compliant metering devices or to a wall with a mounting kit and it does not require an external power supply. The intelligent and automated installation process with Enermet Site Manager speeds up the implementation and eliminates human error. The concentrator automatically recognises ET50 devices that have been entered into its topology and establishes communication to the device

Reliable operation

The communication quality of Enermet ET50 can be monitored and reported precisely and the cumulative power cut duration and number of cuts is registered in the device. The ET50 offers fl exible controls with two relays, week calendar and dynamic and direct controls. Also special street light control functions with adjustable delay are available.

The Enermet ET50 meets strict environmental requirements. The device is made of recyclable materials and conforms to the RoHS directive. Also the packaging is made of recyclable cardboard.

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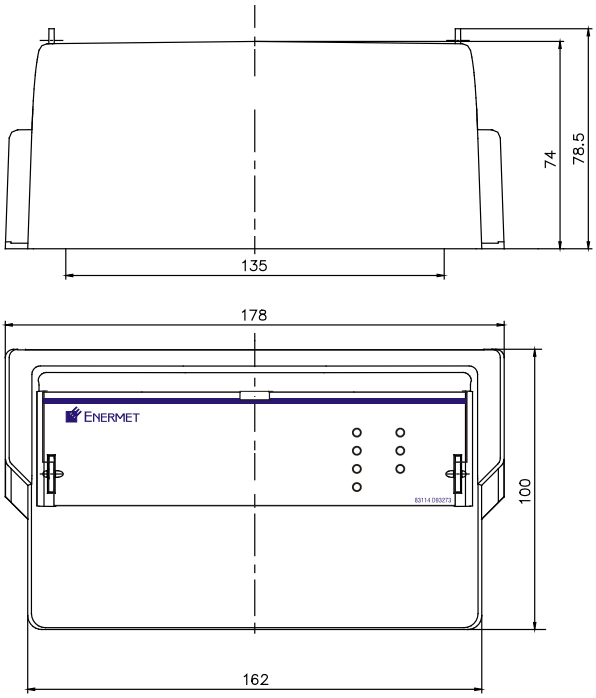

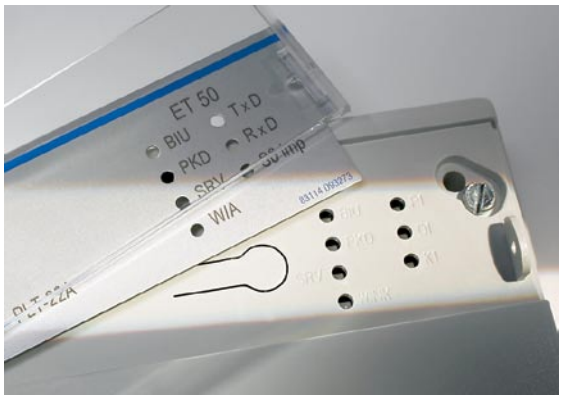

ET50 Technical Specification

Voltage
- U_n = 3x230/400 V

Frequency
- 50 Hz ±1 Hz

Standard
- According to standard IEC62052-21

Communication
- LonTalk®
  - PL-3120 transceiver, A-band
  - PL-3120 transceiver, C-band
  - utility data loggers (SNVT)
    - 16 register objects and 1 node object
  - Explicit message
- M-Bus (IEC 870-5), speed: 300 to 2400 bps

S0-inputs
- 4 S0-inputs
- In accordance with IEC62053-31 Class A
- Isolation voltage test 4 kV rms
- Impulse voltage test 6 kV

Relay outputs
- 2 mechanical relay outputs, 230 V, 6 A
- Both outputs can be used in different voltage systems with isolation of 4 kV rms.

Real-time clock (in +23 °C)
- Clock accuracy: ±1s / 24 h
- Power back-up: super capacitor 14 days (after 15 years 36 hours)

Self-diagnostics
- Internal alarms
- Program memory and EEPROM
- Watchdog

Power Consumption
- Typical: 1,5 W
- Max. while transmitting: 5 W

Temperature Ranges
- Operating –40 ... +60 °C

Case
- IP20

Weight
- 350 g

Register structure
- 16 profile registers
- Alarm and event log
- Power cut log