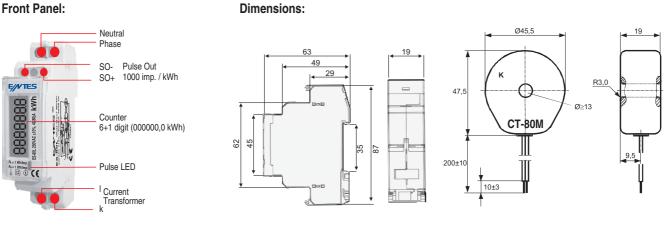


WATT-HOUR METER with LCD single phase ES-80L

M1437

HOUSING



FEATURES

ES-80L measures the active kilowatt hour consumption via current transformer and error free in single phase systems and it displays the total kilowatt hour consumption. The most important features of the device are its reliability, small size, light weight, modern design, and easy installation.

- Pulse output for remote reading and central data storage.
- Flashing LED on the front panel makes it possible to observe whether the measuring is active or not.
- The LCD display on the front panel makes easy and accurate energy reading possible.

APPLICATION AREAS:

- Factories
- Shopping Malls
- Airports
- Stores
 Building Complexes
 Hotels

Hospitals

: IP 20 (EN 60529)

: 60 gr (Main unit) : 74 gr (CT-80M)

50/60 Hz.

0.08-80A

: > 40 years

1000 Pulse / kWh

: < 2 VA : 40 (80) A

: 20 In : Class 1

: 6+1 digit = (999999,9 kWh)

: 230 VAC (127 VAC optional)

- Schools
 Holiday Villages
- Marinas

: (When the current is more than 0.08A it blinks proportional to the consumed energy)

- Industrial
 - Industrial Exhibition Halls
 Cost center applications.

TECHNICAL SPECIFICATIONS (EN62053-21)

HOUSING Protection Class Weight

Railway Stations

Display

MEASUREMENT

Operating Voltage (Un) Operating Frequency Power Consumption Rated Current (In) Current Range (Δ I) Intermittent Overload Accuracy

MEMORY

Data retention duration

PULSE OUTPUT

Pulse LED Pulse Out Pulse Out Feature Pulse width

AMBIENT CONDITIONS

Operating Temperature Humidity Class

CONNECTIONS

Mounting Terminals Input Cable Crossection

: 90%

: (-20 °C) - (+65 °C)

: Standart DIN mount (DIN EN60715) : Screw type terminals with socket

: Optical isolated NPN transistor : 20 mS.(EN 62053-31)

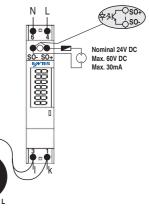
n : 4 mm²

CAUTIONS

1. Connect the ES-80L's terminals as shown in connection diagram.

- 2. ES-80L does not require any periodical maintenance.
- 3. Installing, repairing and operation should be performed by authorized person.
- 4. User can not reset index. If the value of index exceed 999999.9, it is resetted automatically and continue to count,
- 5. During current transformer connection; Connect the red cable to the "k" terminal and black cable to the "I" terminal.

Connection Diagram:



Current Transformer

Turns Ratio	: 1/2500
RB	: 6.25 Ω
Freguency	: 50 /60 Hz
Accuracy	: Class 1
Operating Temperature	: -40°C+70°C
Case	: -40°C+70°C : UL 94 -V0