



COUNTIS E1x

Active-energy meters
single-phase - direct 80 A

Single-circuit metering,
measurement &
analysis



COUNTIS E14 - MID

Function

The COUNTIS E1x is a modular energy meter displaying the energies (kWh, kVArh and kVA) and other measurements directly on its backlit LCD display. It is designed for single-phase load metering and is used for direct connections of up to 80 A.

Advantages

RS485 (MODBUS), M-Bus communication, Ethernet or pulse outputs

To easily centralise your consumption, COUNTIS E1x devices have either one pulse output, one RS485 output (MODBUS), M-Bus or Ethernet Modbus TCP communication. With RS485 and Ethernet communication models, you can configure your meters remotely.

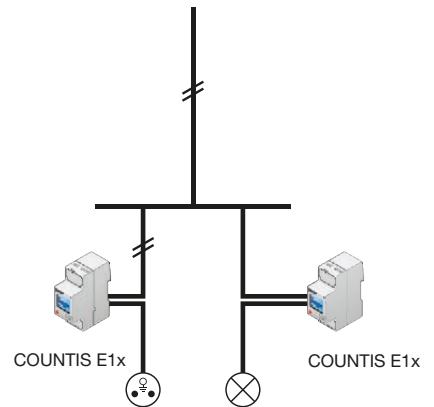
Multi-tariff

Lets you assign different time slots (every hour, dip times) or different sources (normal, back-up) to your energy readings to monitor your energy consumption in more detail.

MID certified B+D module

COUNTIS E units comply with the MID directive to guarantee accuracy and reliability when metering, compulsory for energy billing applications. "Module B+D" certification guarantees that the design and manufacturing process of products are approved by an accredited laboratory.

Functional diagram



Common characteristics

- Measurement accuracy: 1%.
- Displayed on backlit screen.
- Multi-measurement available on display.
- Compact dimensions.

The solution for

- Marinas
- Shopping centers
- Data centers
- Industry
- EV Chargers
- Camping



Strong points

- Compactness
- Multi-measurement
- Bi-directional metering
- RS485 (MODBUS), M-Bus communication, Ethernet or pulse outputs
- Multi-tariff
- MID certified B+D module

MID certification

- COUNTIS E units comply with the MID directive to guarantee accuracy and reliability when metering, compulsory for energy billing applications.
- COUNTIS E MID feature tamper-proof components to prevent fraud.



Conformity to standards

- IEC 62053-21 class 1
- IEC 62053-23 class 2
- IEC 62053-31
- IEC 62052-11
- EN 50470-1
- EN 50470-3



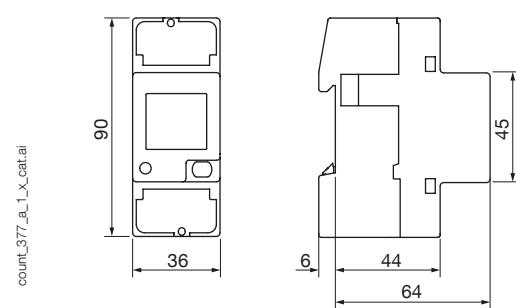
Models	Model-related specifications
E11	Dual tariff + pulse output
E12	Dual tariff + pulse output + MID
E13	Dual tariff + pulse output + MODBUS RS485 communication
E14	Dual tariff + pulse output + MODBUS RS485 communication + MID
E15	Dual tariff + pulse output + M-BUS communication
E16	Dual tariff + pulse output + M-BUS communication + MID
E17	Dual tariff + Ethernet
E18	Dual tariff + Ethernet + MID

Front panel



1. Serial number.
2. Backlit LCD display.
3. MID marking (COUNTIS E12/E14/E16/E18).
4. Metrological LED.
5. Navigation button.
6. Voltage, current, neutral terminals and terminal shrouds (COUNTIS E12/E14/E16/E18).

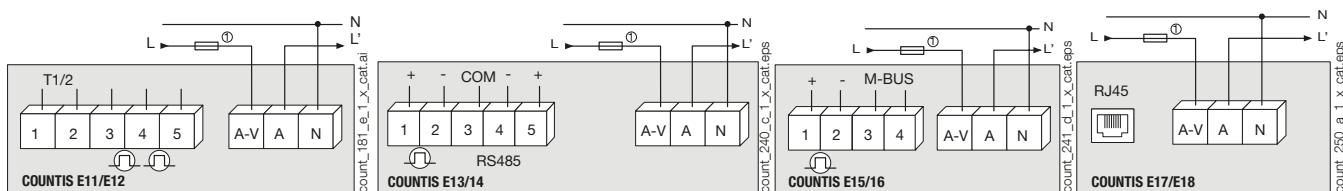
Dimensions (mm)



Type	modular
Number of modules	2
Dimensions W x H x D	36 x 90 x 64 mm
Case degree of protection	IP 20
Front degree of protection	IP 51 ⁽¹⁾
Display type	backlit LCD
Rigid cable cross-section	1.5 ... 35 mm ²
Flexible cable cross-section	1.5 ... 35 mm ²
Weight	215 g E13/E14/E17/E18 205 g E11/E12/E15/E16

(1) For the installation in a cabinet at least with IP51 protection.

Connection



References

Type	COUNTIS E11 Reference	COUNTIS E12 Reference	COUNTIS E13 Reference	COUNTIS E14 Reference	COUNTIS E15 Reference	COUNTIS E16 Reference	COUNTIS E17 Reference	COUNTIS E18 Reference
Direct 80 A - Dual tariff	4850 3060							
Direct 80 A - Dual tariff + MID		4850 3061						
Direct 80 A - Dual tariff + MODBUS communication via RS485			4850 3043					
Direct 80 A - Dual tariff + MODBUS communication via RS485 + MID				4850 3044				
Direct 80 A - Dual tariff + M-Bus communication					4850 3045			
Direct 80 A - Dual tariff + M-Bus communication + MID						4850 3046		
Direct 80 A - Dual tariff + Ethernet Modbus TCP communication							4850 3047	
Direct 80 A - Dual tariff + Ethernet Modbus TCP communication + MID								4850 3048
Accessories	To be ordered in multiples of						Reference	
10x 1U sealing kits	6						4850 305U	
Fuse disconnect switches to protect 1-pole voltage inputs (RM type)	6						5702 5001	
gG 22x58 80 A fuses	10						6022 0040	