



COUNTIS E0x

Active energy meters
single-phase - direct 40 A

Single-circuit metering,
measurement &
analysis



COUNTIS E04 - MID

Function

The COUNTIS E0x is a modular energy meter displaying energies (kWh and kVArh) and other measurements directly on its backlit LCD display, allowing direct connection up to 40 A. COUNTIS E02, E04 and E06 are also MID-certified.

Advantages

Compactness

Only 1 module wide.

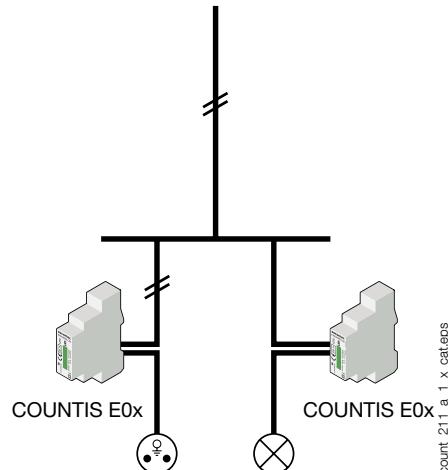
Output (pulses)

The pulse output enables the kWh consumption to be reported to a remote system (PC/BMS) so that it can be analysed for billing, energy saving or energy cost management purposes.

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

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

The solution for

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



Strong points

- Compactness
- Output (pulses)
- MID certified B+D module
- RS485 (MODBUS) and M-Bus communication
- Multi-measurement
- Bi-directional metering



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.

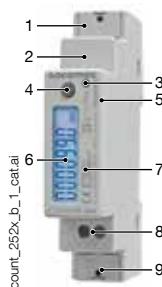
Conformity to standards



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

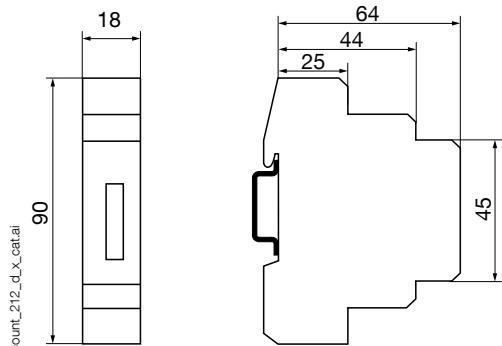
Models	Model-related specifications
E00	Pulse output
E02	Pulse output + MID
E03	Dual tariff + Pulse output + RS485 MODBUS communication
E04	Dual tariff + Pulse output + RS485 MODBUS communication + MID
E05	Dual tariff + Pulse output + M-Bus communication
E06	Dual tariff + Pulse output + M-Bus communication + MID

Front panel



1. Neutral terminal and terminal shrouds (COUNTIS E02/E04/E06).
2. M-Bus/MODBUS connection.
3. Metrological LED.
4. Navigation button.
5. Serial number.
6. Backlit LCD display.
7. MID marking (COUNTIS E02/E04/E06).
8. Pulse output.
9. Current and voltage terminals.

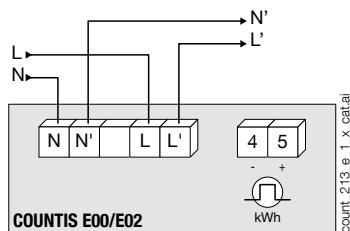
Dimensions (mm)



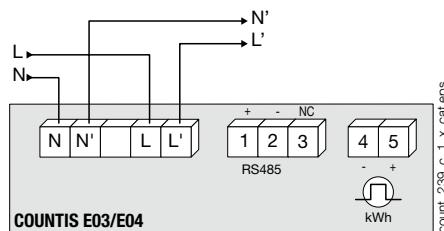
Type	modular
Number of modules	1
Dimensions W x H x D (mm)	18 x 90 x 64
Case degree of protection	IP 20
Front degree of protection	IP 51 ⁽¹⁾
Display type	7 digit LCD with backlighting
Rigid cable cross-section	1.5 ... 6 mm ²
Flexible cable cross-section	1.5 ... 6 mm ²
Weight	100 g E03/E04 80 g E00/E02/E05/E06

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

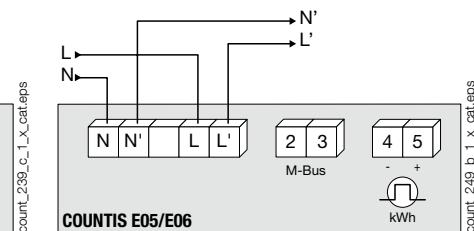
Terminals and connections



N - L: network input.



N' - L': network output.



References

Type	COUNTIS E00 Reference	COUNTIS E02 Reference	COUNTIS E03 Reference	COUNTIS E04 Reference	COUNTIS E05 Reference	COUNTIS E06 Reference
Direct 40 A	4850 3058					
Direct 40 A - MID		4850 3059				
Direct 40 A - Dual tariff + RS485 MODBUS communication			4850 3039			
Direct 40 A - Dual tariff + RS485 MODBUS communication + MID				4850 3040		
Direct 40 A - Dual tariff + M-Bus communication					4850 3041	
Direct 40 A - Dual tariff + M-Bus communication + MID						4850 3042