

# COUNTIS E0x

Active energy meters for electrical distribution  
single-phase - direct 40 A



COUNTIS E04 - MID

## Function

The COUNTIS E0x is a modular electrical power meter. It shows kWh and kVAh readings and other measurements on its backlit LCD. These devices connect directly to a 40 A circuit.

The COUNTIS E0x is fully integrated into the SOCOMEC monitoring ecosystem (Webview, screens, gateways, configuration software, etc.). COUNTIS E02, E04 and E06 are MID-certified.

## Advantages

### Compact

Only one module wide.

### Communication via RS485 MODBUS, M-BUS or pulse output

COUNTIS E0x units have either one pulse output or an RS485 (MODBUS) or M-BUS communication output.

The pulse output transmits the consumption reading in kWh to a remote system (PC/BMS) so you can use it for billing purposes, to save energy and manage your energy costs.

### B+D module, MID-certified

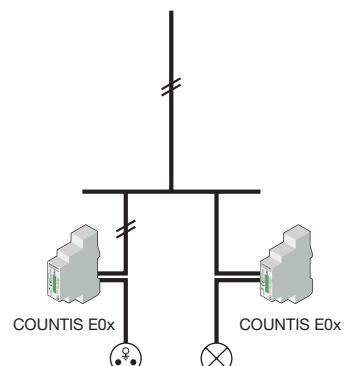
COUNTIS E units meet MID standards and ensure accurate and reliable metering (all crucial prerequisites of power-billing applications).

The "module B+D" certification proves that an external laboratory has verified the design and production process of these devices.

### Socomec monitoring ecosystem: user software, remote displays

Inherent compatibility with energy management systems and Socomec gateways (Webview, screens, gateways, etc.).

## Functional diagram



count\_211\_a\_1\_x\_cat.eps

## The solution for

- Data centre
- Building
- Industrial process



## Strong points

- Compact
- Communication via RS485 MODBUS, M-BUS or pulse output
- B+D module, MID-certified
- Socomec monitoring ecosystem: user software, remote displays

## MID certification

- COUNTIS E units meet MID standards and provide accurate and reliable metering for power-billing applications.
- The COUNTIS E MID has tamper-proof accessories to prevent fraud.



## Compliance with standards

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



## Associated current transformers



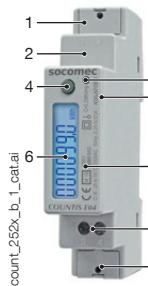
See "Current transformers".

Models	Specific features
E00	Output (pulses)
E02	Pulse output + MID
E03	Dual-tariff + pulse output + communication via RS485 MODBUS
E04	Dual-tariff + pulse output + communication via RS485 MODBUS + MID
E05	Dual-tariff + pulse output + communication via M-BUS
E06	Dual-tariff + pulse output + communication via M-BUS + MID

## Common characteristics

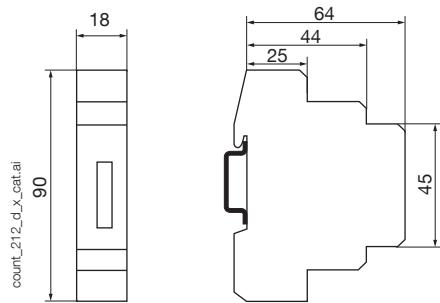
- Compact
- Measurement accuracy: 1%.
- Displayed on backlit screen.
- Multiple measurements on-screen.

## Front panel



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

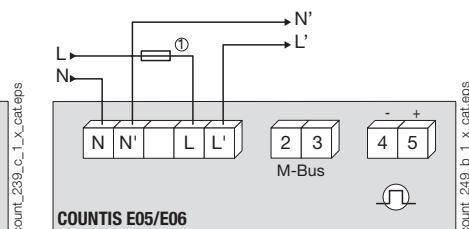
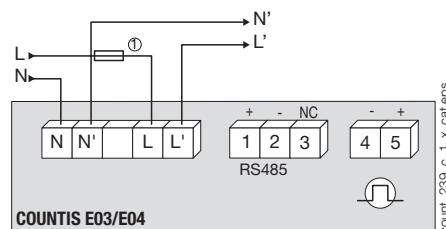
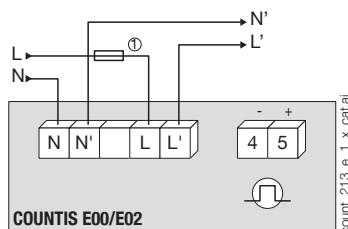
## Dimensions (mm)



Type	Modular
Number of modules	1
Dimensions W x H x D	18 x 90 x 64 (mm)
Casing protection degree	IP 20
Front panel protection degree	IP 51 <sup>(1)</sup>
Display type	LCD 7 digits with backlighting
Cross-section of rigid connecting cable	1.5 to 6 mm <sup>2</sup>
Cross-section of flexible connecting cable	1.5 to 6 mm <sup>2</sup>
Weight	100 g E03/E04 80 g E00/E02/E05/E06

(1) Cabinet installations require a protection degree of at least IP51.

## Connections



N - L: network input.

N' - L': network output.

1. 0.5 A gG / 0.5 A class CC fuses.

## References

Type	COUNTIS E00	COUNTIS E02	COUNTIS E03	COUNTIS E04	COUNTIS E05	COUNTIS E06
Direct 40 A	Reference 4850 3058					
Direct 40 A - MID		Reference 4850 3059				
Direct 40 A - Dual-tariff + communication via RS485 MODBUS			Reference 4850 3039			
Direct 40 A - Dual-tariff + communication via RS485 MODBUS + MID				Reference 4850 3040		
Direct 40 A - Dual-tariff + communication via M-BUS					Reference 4850 3041	
Direct 40 A - Dual-tariff + communication via M-BUS + MID						Reference 4850 3042
<b>Accessories</b>	<b>Available for order in multiples of</b>			<b>Reference</b>		
10x 1U sealing kits				4850 305U		
Fuse disconnect switches for voltage input protection (RM type) 1-pole				5702 5001		
gG 14x51 40 A fuses				6022 0040		