

# COUNTIS E2x

Active energy meters for electrical distribution  
three-phase - direct 80 A



COUNTIS E24 - MID

## Function

The COUNTIS E2x is a modular electrical power meter. It shows kWh, kVAh and kVA readings and other measurements on its backlit LCD. These devices are intended for three-phase networks and accommodate a direct connection up to 80 A.

The COUNTIS E2x is fully integrated into the SOCOMEC monitoring ecosystem (Webview, screens, gateways, configuration software, etc.).

## Advantages

### Communication via RS485 (MODBUS), M-Bus, Ethernet or pulse outputs

COUNTIS E2x units have either one pulse output or one RS485 (MODBUS), M-Bus or Ethernet Modbus TCP communication output.

### Multi-tariff

Allows you to assign energy metering to different time slots (every hour, off-peak hours) or different sources (normal, replacement) to accurately monitor energy consumption.

### B+D module, MID-certified

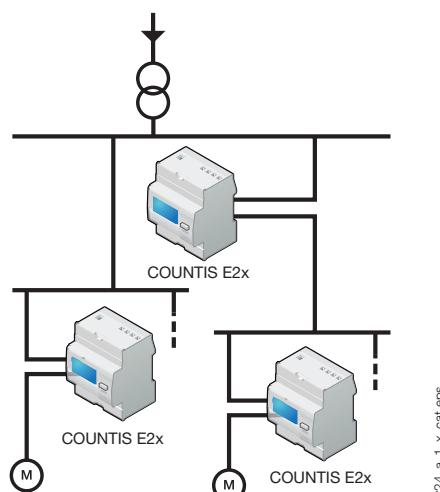
COUNTIS E units meet MID standards and ensure accurate and reliable metering (crucial prerequisites of power-billing applications).

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.2224.8.1.X.cat.eps

## Common characteristics

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

Models	Specific features
E21	Dual-tariff + pulse output
E22	Dual-tariff + pulse output + MID
E23	Dual-tariff + pulse output + communication via RS485 MODBUS
E24	Dual-tariff + pulse output + communication via RS485 MODBUS + MID
E25	Dual-tariff + pulse output + communication via M-BUS
E26	Dual-tariff + pulse output + communication via M-BUS + MID
E27	Dual-tariff + pulse output + Ethernet
E28	Dual-tariff + pulse output + Ethernet + MID

## The solution for

- Data centre
- Building
- Industrial process



## Strong points

- Communication via RS485 (MODBUS), M-Bus, Ethernet or pulse outputs
- Multi-tariff
- 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



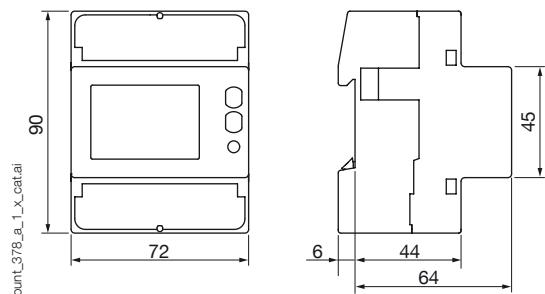
See "Current transformers".

## Front panel



1. Neutral terminal.
2. Backlit LCD.
3. Navigation button.
4. ENTER key.
5. Metrological LED.
6. Current/voltage terminals with terminal shrouds (COUNTIS E02/E04/E06).

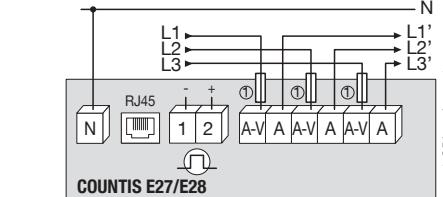
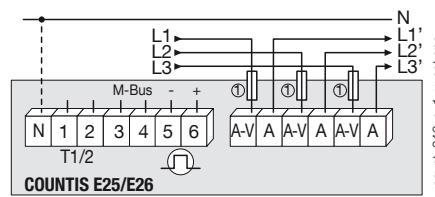
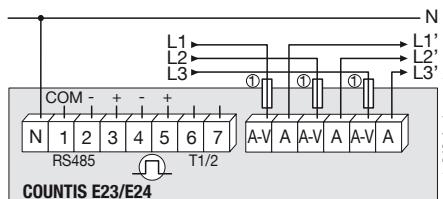
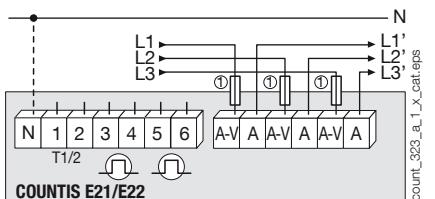
## Dimensions (mm)



Type	Modular
Number of modules	4
Dimensions W x H x D	72 x 90 x 64 mm
Casing protection degree	IP 20
Front panel protection degree	IP 51 <sup>(1)</sup>
Display type	Backlit LCD, 8 digits
Cross-section of rigid connecting cable	1.5 to 35 mm <sup>2</sup>
Cross-section of flexible connecting cable	1.5 to 35 mm <sup>2</sup>
Weight	440 g

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

## Connections



**IMPORTANT:** Neutral connection is mandatory on COUNTIS E23/E24/E27/E28 (neutral is represented by the solid line in the image opposite).

Neutral is optional on COUNTIS E21/E22/E25/E26 (neutral is represented by the dashed line in the image opposite).

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

## References

Type	COUNTIS E21 Reference	COUNTIS E22 Reference	COUNTIS E23 Reference	COUNTIS E24 Reference	COUNTIS E25 Reference	COUNTIS E26 Reference	COUNTIS E27 Reference	COUNTIS E28 Reference
Direct 80 A - Dual-tariff	4850 3062							
Direct 80 A - Dual-tariff + MID		4850 3049						
Direct 80 A - Dual-tariff + MODBUS communication via RS485			4850 3050					
Direct 80 A - Dual-tariff + MODBUS communication via RS485 + MID				4850 3051				
Direct 80 A - Dual-tariff + communication via M-BUS					4850 3052			
Direct 80 A - Dual-tariff + communication via M-BUS + MID						4850 3053		
Direct 80 A - Dual-tariff + communication via Ethernet Modbus TCP							4850 3054	
Direct 80 A - Dual-tariff + Ethernet Modbus TCP + MID								4850 3055
<b>Accessories</b>	<b>Available for order in multiples of</b>						<b>Reference</b>	
Panel mounting kit, 4 modules							192J 8015	
10x sealing kits, 4U							4850 309U	
Fuse disconnect switches for voltage input protection (RM type) 3-pole							5703 5003	
gG 22x58 80 A fuses							6032 0080	