



# COUNTIS E2x

**Active-energy meters**  
three-phase - direct 80 A

Single-circuit metering,  
measurement &  
analysis



COUNTIS E24 - MID

## Function

The COUNTIS E2x is a modular energy meter displaying the energies (kWh, kVAh and kVA) and other measurements directly on its backlit LCD display. It is designed for three-phase networks and allows a direct connection of up to 80 A.

## Advantages

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

To easily centralise your consumption, COUNTIS E2x devices have either one pulse output, one RS485 (MODBUS), M-BUS or an Ethernet Modbus TCP communication output. With RS485 and Ethernet communication models, you can configure your meters remotely.

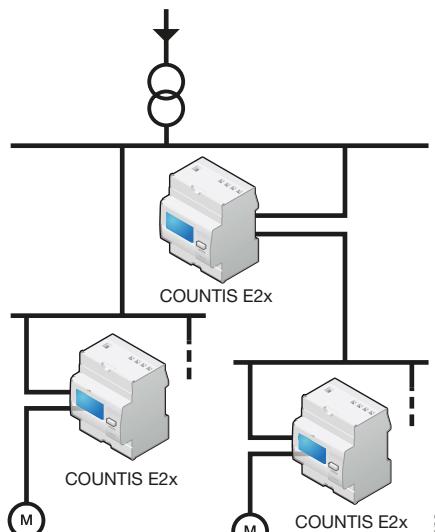
### Multi-tariff

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



count.224.a.1-X.catps

## Common characteristics

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

Models	Model-related specifications
E21	Dual tariff + pulse output
E22	Dual tariff + pulse output + MID
E23	Dual tariff + pulse output + MODBUS RS485 communication
E24	Dual tariff + pulse output + MODBUS RS485 communication + MID
E25	Dual tariff + pulse output + M-BUS communication
E26	Dual tariff+ pulse output + M-BUS communication + MID
E27	Dual tariff + pulse output + Ethernet
E28	Dual tariff + pulse output + Ethernet + MID

## The solution for

- Industry
- Infrastructure
- Data center
- EV Chargers
- Shopping centers



## Strong points

- RS485 (MODBUS), M-BUS, Ethernet or pulse outputs
- Multi-tariff
- MID certified B+D module
- Multi-measurement on display
- 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



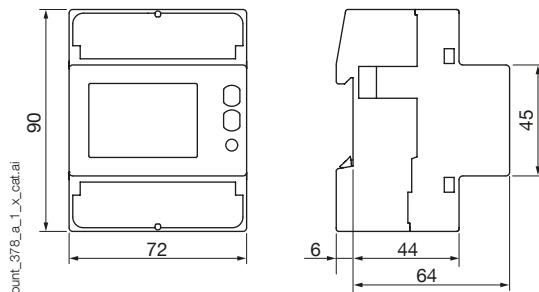
- IEC 62053-21 class 1
- IEC 62053-23 class 2
- IEC 62053-31
- IEC 62052-11
- EN 50470-1
- EN 50470-3

## Front panel



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

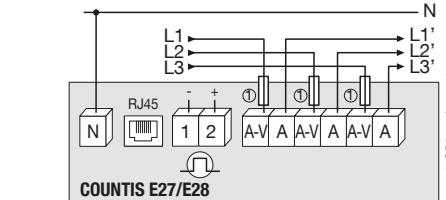
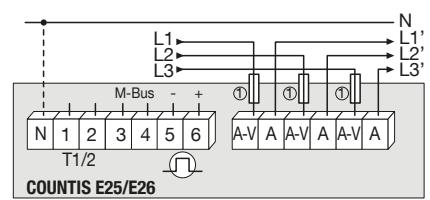
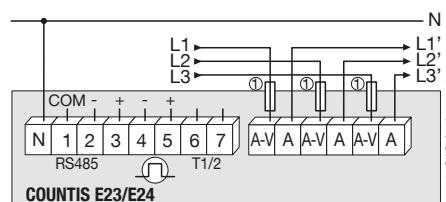
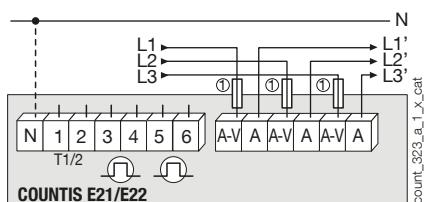
## Dimensions (mm)



Type	modular
Number of modules	4
Dimensions W x H x D	72 x 90 x 64 mm
Case degree of protection	IP 20
Front degree of protection	IP 51 <sup>(1)</sup>
Display type	8-digit backlit LCD
Rigid cable cross-section	1.5 ... 35 mm <sup>2</sup>
Flexible cable cross-section	1.5 ... 35 mm <sup>2</sup>
Weight	440 g

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

## Connection



**WARNING:** The neutral conductor must be connected on models COUNTIS E23 / E24 / E27 / E28 (the neutral conductor is represented by the solid line in the image opposite).

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

## 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 + M-Bus communication					4850 3052			
Direct 80 A - Dual tariff + M-Bus communication + MID						4850 3053		
Direct 80 A - Dual tariff + Ethernet Modbus TCP communication							4850 3054	
Direct 80 A - Dual tariff + Ethernet Modbus TCP + MID								4850 3055

## Accessories

	To be ordered in multiples of	Reference
Panel mounting kit 4 modules		192J 8015
10x U sealing kits		4850 309U
Fuse disconnect switches to protect 3-pole voltage inputs (RM type)	2	5703 5003
gG 22x58 80 A fuses	10	6032 0080