



# COUNTIS E3x

Active energy meters  
three-phase - direct 100 A



Single-circuit metering,  
measurement &  
analysis

## Function

The COUNTIS E3x is a modular active electrical energy meter displaying the energy and power consumed (kWh and kW) directly on its backlit LCD display. It is designed for three-phase load metering and is used for direct connections of up to 100 A.

COUNTIS E32, E34 and E36 are MID certified.

## Common characteristics

- Measurement accuracy: 1 %
- Backlit LCD display.
- Detects connection errors.

## Advantages

### RS485 communication (MODBUS or M-BUS) or pulse output

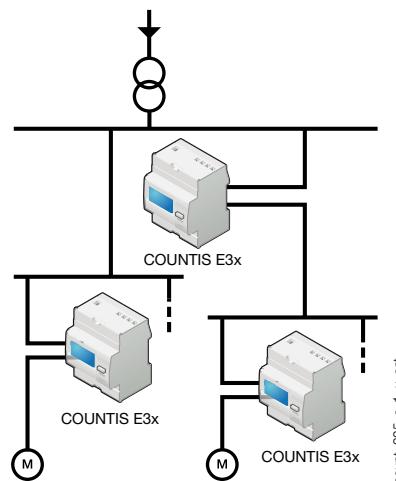
To enable the remote reporting of energy consumption, COUNTIS E3x are provided with either a pulse output or an RS485 communication output, with MODBUS or M-BUS protocol.

In addition to their reporting functions, COUNTIS E3x with RS485 can be configured remotely and enable access to multi-measurement values.

### Detection of connection errors

The product is protected against phase/neutral inversion and detects wiring errors. This simplifies the installation and commissioning, thereby reducing associated costs, and ensures that the device operates correctly.

## Principle diagram



### MID certified B+D module

COUNTIS E products with MID certification provide the guaranteed accuracy required for applications in which sub-billing of the electrical energy consumed is necessary. "Module B+D" certification guarantees that the design and manufacturing process of products are approved by an accredited laboratory.

### Bi-directional metering (available only on the E33 and E35)

This function is for metering energy production or energy consumption.

### Multi-measurement and load curve

Display of electrical values (I, U, V, P, Q, S, PF) and load curve over a 7 day period via communication.

## The solution for

- Industry
- Infrastructure
- Data centres



## Strong points

- RS485 communication (MODBUS or M-BUS) or pulse output
- Detection of connection errors
- MID certified B+D module
- Bi-directional metering
- Multi-measurement and load curve



## MID certification

- COUNTIS E comply with the MID directive, guaranteeing accuracy and reliability when metering, an indispensable function for energy billing applications.
- COUNTIS E MID feature tamper-proof components to prevent fraud.

## Conformity to standards



- IEC 62053-21 class 1
- IEC 62053-31
- IEC 62053-11
- EN 50470-1
- EN 50470-3

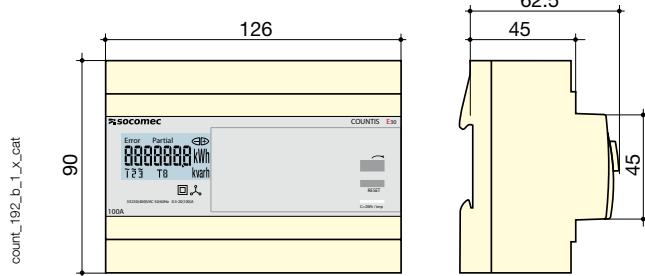
Models	Key characteristics
E30	Pulse output
E31	Dual tariff (2 partial counters) + Pulse output
E32	Dual tariff + MID (Reset impossible) + Pulse output
E33	Dual tariff + RS485 MODBUS communication
E34	Dual tariff + RS485 MODBUS communication + MID (Reset impossible)
E35	Dual tariff + M-BUS communication
E36	Dual tariff + M-BUS communication + MID (Reset impossible)

## Front panel



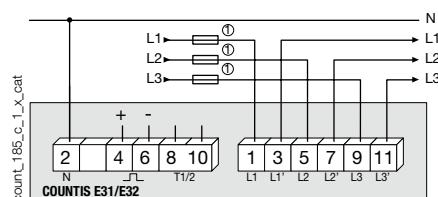
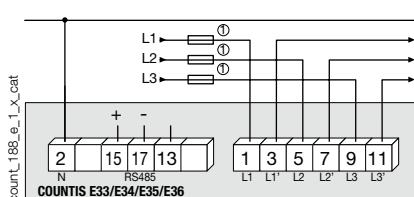
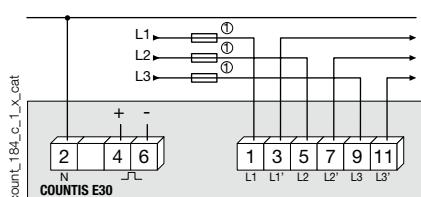
1. Terminal shrouds (COUNTIS E32, E34 and E36).
2. Backlit LCD display.
3. MID marking (COUNTIS E32, E34 and E36).
4. Serial number (COUNTIS E32, E34 and E36).
5. Navigation key.
6. Reset key.
7. Metrological LED.

## Case



Type	modular
Number of modules	7
Dimensions W x H x D	126 x 90 x 62.5 mm
Case degree of protection	IP20
Front degree of protection	IP51
Display type	backlit LCD display
Rigid cable cross-section	2.5 to 35 mm <sup>2</sup>
Flexible cable cross-section	2.5 to 35 mm <sup>2</sup>
Weight	490 g

## Connection



1. 100 A gG / Am fuses max.

## References

Type	COUNTIS E30 Reference	COUNTIS E31 Reference	COUNTIS E32 Reference	COUNTIS E33 Reference	COUNTIS E34 Reference	COUNTIS E35 Reference	COUNTIS E36 Reference
100 A direct	4850 3005						
100 A direct - Dual tariff		4850 3006					
100 A direct - Dual tariff - MID			4850 3007				
100 A direct - Dual tariff with RS485 MODBUS communication <sup>(1)</sup>				4850 3012			
100 A direct - Dual tariff with RS485 MODBUS communication - MID <sup>(1)</sup>					4850 3013		
100 A direct - Dual tariff with M-BUS communication <sup>(1)</sup>						4850 3025	
100 A direct - Dual tariff with M-BUS communication - MID <sup>(1)</sup>							4850 3026
Management software for COUNTIS	See page 142						

(1) 4 tariffs through RS485 communication.