

COUNTIS AM10

COUNTIS®
system



COUNTIS AM10

- COUNTIS Adc
- COUNTIS AMd / COUNTIS AMt
- COUNTIS ATv2 / COUNTIS ATiv2
- COUNTIS ATd
- COUNTIS ATPv2
- COUNTIS Ci



Functions

The **COUNTIS AM10** is a modular active energy meter designed for single phase networks. This product used for direct connections up to 32 A.

Conformity to standards

- IEC 62053-21 class 1
- IEC 61010-1
- IEC 61000-4-2
- IEC 61000-4-3
- IEC 61000-4-4
- IEC 61000-4-5
- IEC 61000-4-6
- IEC 61000-4-8
- IEC 61000-4-11
- IEC 60068-2-6
- IEC 60068-2-11
- IEC 60068-2-30

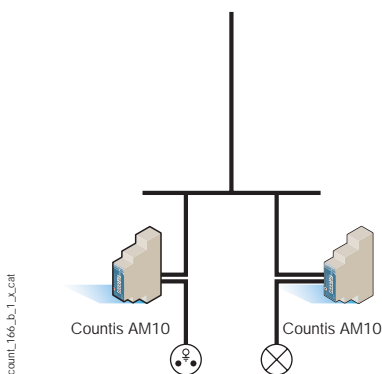
COUNTIS AM10

1. kWh display

2. Luminous consumption indicator
(6000 pulses/kWh)

Applications

COUNTIS AM10 is a 32A active energy meter.
An LCD display shows kWh consumption.
The **COUNTIS AM10** has a pulse output for kWh export to a data logger on PC.





Reference



COUNTIS AM10

| | |
|-------------|-----------|
| Connections | Reference |
| Direct 32 A | 4850 AM10 |

Electrical characteristics

Current measurement (TRMS)

| | |
|--------------------------|-------------------------|
| Type | 32 A direct input |
| Input consumption | 1 VA |
| Overload | 20 I_{max} for 500 ms |
| Minimum measured current | 15 mA |

Voltage measurement (TRMS)

| | |
|----------------------|-----------------|
| Range of measurement | 184 ... 276 VAC |
| Input consumption | ≤ 8 VA |
| Sustained overload | 276 VAC |

Energy accuracy

| | |
|------------------------------------|---------|
| Active (according to IEC 62053-21) | Class 1 |
|------------------------------------|---------|

Auxiliary power supply

| | |
|---------------|-----|
| Self-supplied | yes |
|---------------|-----|

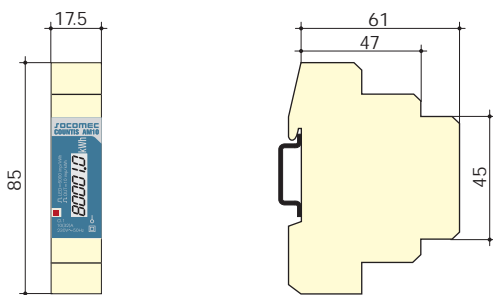
Output (pulsed)

| | |
|--------------------------|--------------------|
| Number | 1 |
| Type phototransistor | 35 VDC - 50 mA max |
| Fixed weight of impulses | 100 Wh |
| Impulse duration | 100 ms |

Operating conditions

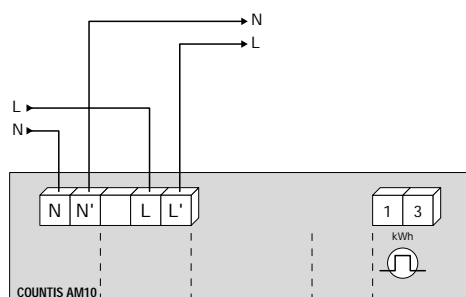
| | |
|-----------------------|------------------|
| Operating temperature | - 20 ... + 45 °C |
| Storage temperature | - 25 ... + 70 °C |
| Relative humidity | 85 % |

Overall dimensions



| | |
|-----------------------------------|--------------------|
| Type | modular |
| Number of modules | 1 |
| Dimensions H x W x D | 17.5 x 85 x 61 mm |
| Case protection rating | IP 20 |
| Front protection rating | IP 50 |
| Display type | LCD 5+1 digits |
| Rigid cable connection section | 10 mm ² |
| Flexible cable connection section | 6 mm ² |
| Weight | 150 g |

Terminal connections



N & L: Network voltage inputs
N & L: Network voltage outputs
1 & 3: Pulse outputs