

# COUNTIS ATd

Energy  
metering

COUNTIS AM10  
COUNTIS Adc  
COUNTIS AMd / COUNTIS AMt  
COUNTIS ATv2 / COUNTIS ATiv2  
▶ **COUNTIS ATd**  
COUNTIS ATPv2  
COUNTIS Ci



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## COUNTIS ATd 80 A direct connection

1. Connection of active conductors by cable passing or terminals.
2. kWh displays (total and partial).
3. Pushbutton for scrolling through configuration or total (Tot.) and partial (Part.) display parameters.
4. Pushbutton for configuration parameter validation.
5. Pulsed LCD indicates active consumption (10 Wh/pulse).

## Functions

The **COUNTIS ATd** is a direct powered instrument designed for applications in sub-metering three phase active energy up to 80 A.

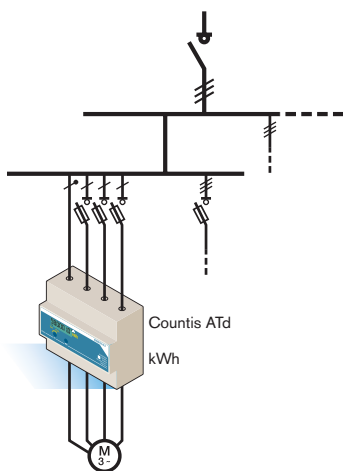
This product is based on a principle which is unique on the market, using direct passage measurement with 3 or 4 cables (with or without neutral) or via standard connection terminals.

Passing cables through holes means that from 3 or 4 cables, 3 currents and 3 voltages can be measured and the device can be powered. Measurement of voltages and power supply are made through insulation piercing screws.

## Conformity to standards

- IEC 61036 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 60669-1
- IEC 60669-2

## Applications



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The **COUNTIS ATd** is equipped with an adding counter allowing a direct reading in kWh and a pulse output as standard. A partial meter (with RESET) enables totalisation of energy for specific time periods. The ATd can be fully configured by the user via the keypad and the display (type of network and pulse duration). Furthermore associated with a **COUNTIS Ci**, a consumption centralisation is possible via a PLC or a equipped PC with the CONTROL VISION software.



## References



**COUNTIS ATd**

Network voltage between phases	References
230 VAC	4850 0300
400 VAC	4850 1300

## Electrical characteristics

### Current measurement (TRMS)

Type	direct
Measurement range	0.8 ... 80 A
Input consumption	2.5 VA
Sustained overload	125 A
Overload	30 I <sub>n</sub> during 0.01 s

### Voltage measurement (TRMS)

Direct measurement between phases	230 ± 20% / 400 ± 15% VAC
Input consumption	2 VA
Frequency	50 / 60 Hz

### Energy accuracy

Active (according to IEC 61036)	Class 1
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### Auxiliary power supply

Self-supplied	yes
Consumption	2 VA

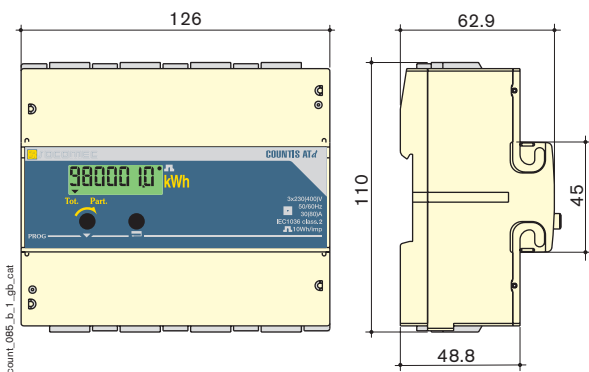
### Output (pulsed)

Number	1
Type reed relay	100 VDC - 0.5 A - 12 VA
Fixed weight of impulses	100 Wh
Impulse duration	60 ... 900 ms
Max. number of operations	5 x 10 <sup>7</sup>

### Operating conditions

Operating temperature	-5 ... +45 °C
Storage temperature	-20 ... +70 °C
Relative humidity	85%

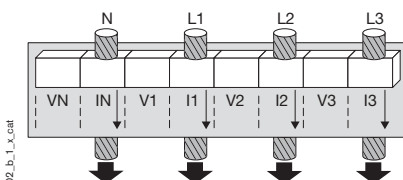
## Overall dimensions



Type	modular
Number of modules	7
Dimensions W x H x D	126 x 110 x 62.9 mm
Case protection rating	IP20
Front protection rating	IP40
Display type	LCD
Terminal block type	fixed
Max. section of connection per cable channel	25 mm <sup>2</sup>
Max. section of connections to terminals	50 mm <sup>2</sup>
Rigid connection section of the impulse output	1.5 ... 10 mm <sup>2</sup>
Flexible connection section of the impulse output	1 ... 6 mm <sup>2</sup>
Weight	700 g

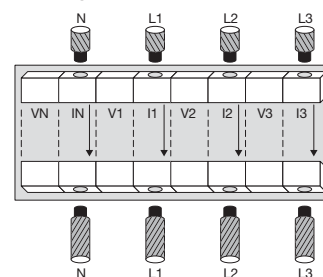
## Terminal connections

### • By passing the cables through



- Currents: cables pass in I1, I2, I3 and IN (if distributed neutral).  
- Voltages: piercing of cable insulation through I1, I2, I3 and IN (if distributed neutral).

### • By cutting the cables



Currents and voltages: connection on both sides of the casing of terminals I1, I2, I3 and IN (if distributed neutral).