

# Energy Meters



## Static meter 125 A direct connection



Direct connection for three-phase network, 4-wires.  
It makes available active or reactive energy counting of the pulse output to integration of consumption supervision systems.  
For supervision systems, through the model with output RS485 communication Modbus RTU, you can transmitted on the network main electrical parameters in addition to the energy consumption.

### Functions

- Total active and reactive energy (positive)
- Partial active and reactive energy (resettable)
- Instantaneous current, voltage and frequency
- Active and reactive power (three-phase and single phase)
- Power Factor
- Run hour meter (count start 0,4...50% rated power)

Item	Conto D6 Pd MID			Input
	Network	Output		
CE6DMID56	3Ph + N	Pulse + RS485 Modbus RTU/TCP		Double tariff
CE6DMID52	3Ph + N	Pulse		Double tariff

### Technical features

#### TECHNICAL FEATURES

##### INPUT CURRENT

Starting current (Ist)	0,04A
Min. current (Imin)	0,5A
Basic current (Ib)	10A
Max. current (Imax)	125A
Short-time overcurrent	30Imax/10ms
Power consumption	1,5W for phase

##### INPUT VOLTAGE

Reference three-phase voltage	400V
Reference 3 phase voltages (with N)	230V +/-10%

##### NETWORK

Reference frequency	50Hz +/-1Hz / 60Hz +/-1Hz
Frequency tolerance	47...63Hz

##### AUXILIARY SUPPLY

Nominal voltage	Taken from measurement (self-supplied)
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##### ACCURACY

Active energy kWh EN50470	cl. B
Reactive energy kvarh EN/IEC 62053-23	cl. 2

##### DISPLAY

Type	Backlit LCD
Inch Display	2"
Energy resolution	total 999999999KWh tariff 999999,99KWh

##### MECHANICAL FEATURES

Housing	6 module DIN 43880 (35mm)
Housing material	self-extinguishing polycarbonate
Protection degree	IP20 terminals/ IP54 front frame
Sealable terminals	Yes
Connections type	screw terminals
Cable with lag	output - max 1mm <sup>2</sup> input - max 50mm <sup>2</sup> (16 neutral)
Flexible cable	output - max 2,5mm <sup>2</sup> input - max 35mm <sup>2</sup> (16 neutral)

##### ENVIRONMENTAL CONDITIONS

Nominal temperature range	-25...55°C
Limit range for storage and transport	-40...70°C
Suitable for tropical climates	yes
Max.power dissipation*	≤6W

\*For switchboard thermal calculation

### Output

#### ENERGY PULSES S0 EN/IEC 62053-31

Type	Optorelay with potential-free
Contact range	27Vdc/ac – 50mA
Assignable energy	Active or reactive energy
Pulse weight	selectable 1Wh/varh...10kWh/kvarh
Pulse duration	selectable 50...500ms

#### RS485 COMMUNICATION

Protocol	Modbus RTU/TCP
Standard	RS485-3-wire
Baud rate	selectable 4800...19200 bit/s

### Input

Type	Free contact (voltage)
Contact characteristics	12-24Vdc -10mA
Management	Double tariff T1-T2 or pulse from external contactors (selecting pulse measurement unit)

### Wiring diagrams

