



ECM180D

## 1 Phase kWhmeter direct 80A 2M MBUS MID

### Technical properties

#### Architecture

Bus system	M-BUS
Number of poles	2 P
Type of pole	1P+N
Fixing mode	DIN rail type O (symmetrical)

#### Functions

Precision class	B
Tarif type	T1...T2 (230V AC) / T1...T2 M-BUS

#### Configuration

Number of modules	2
-------------------	---

#### Compatibility

Suitable for	Purchase / supply
--------------	-------------------

#### Main electrical features

Rated operational voltage $U_e$	92 / 276 V
Type of supply voltage	AC
Frequency	50 Hz

#### Voltage

Max operating voltage	300 V
Rated impulse withstand voltage	6 kV

#### Electric current

Minimum operating current	0.015 A
Operating current	0.015 / 80 A
Rated current	80 A
Reference current	5 A
Max. measurement circuit current	80 A

#### Dimensions

Depth of installed product	60 mm
Height of installed product	92 mm
Width of installed product	36 mm

#### Power

Power consumed	2 VA
Total power loss under IN	1 W

**Electrical specifications**

Type of pulse generator	optical
-------------------------	---------

**Measurement**

Frequency measuring range	45 to 65 Hz
---------------------------	-------------

Type of measuring instrument	electrical
------------------------------	------------

Principle of measurement	Direct measurement
--------------------------	--------------------

**Power supply**

Supply voltage	230 V $\pm$ 20%
----------------	-----------------

**Installation, mounting**

Tightening torque	2Nm
-------------------	-----

Mounting type	din-Rail
---------------	----------

**Connection**

Wire cross section of metering entrance wire	33 mm <sup>2</sup>
--	--------------------

Wire cross section of metering outgoing wire	33 mm <sup>2</sup>
--	--------------------

**Equipment**

Type of display	retro illuminated display
-----------------	---------------------------

Tariff model of kilowatt-hour meter	Externa
-------------------------------------	---------

Type of counter	single-phase counter
-----------------	----------------------

**Standards**

Standard text	EN 50470-1 / 3 ; IEC 62053-21 / 23 ; IEC 61557-12
---------------	---

Certified product	MID (Measuring Instruments Directive)
-------------------	---------------------------------------

European directive WEEE	concerned
-------------------------	-----------

**Safety**

Protection index IP	IP20
---------------------	------

Protection class	isol.class II
------------------	---------------

**Use conditions**

Operating temperature	-25...55 °C
-----------------------	-------------

Degree of pollution according to IEC 60664 / IEC 60947-2	2
--	---

Altitude	2000 m
----------	--------

Storage/transport temperature	-25...70 °C
-------------------------------	-------------