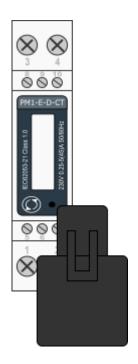
# Single phase power-sensor

#### 1-phase power-sensor, current transformer



Model number:	PM1-E-D-CT	
	MC-230	
Connect to:	RS485 power sensor bus A - B	
Mounting:	DIN rail, 1M, 18 mm	
Dimensions:	18 × 62 × 119 mm	
Used for measuring power and energy of		
✓ single-	single-phase energy sources	
✓ single-	single-phase energy consumers	

## **Applications**

Digital multi-function power sensor for single phase networks

#### **Features**

- DIN rail mounting with 50A current transformer
- Compact design in a single module 18mm wide
- Seal-able cover(phase and neutral terminals)

### **General description**

The PM1-E-D series is an advanced single phase energy monitoring solution with built-in configuration push button and LCD data displaying, particularly indicated for active energy and other parameters metering and for cost allocation. Housing for DIN-rail mounting,IP51 protection degree, direct connection up to max 45A.

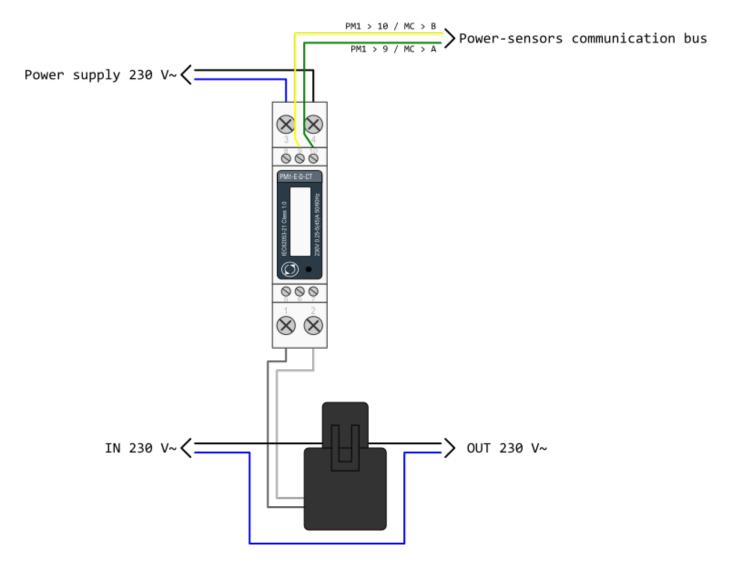
## **Technical specifications**

Technical Data	
Operating Humidity	≤ 75%

Storage Humidity	≤ 95%	
Operating Temperature	-20°C - +50°C	
Storage Temperature	-30°C - +70°C	
International Standard	IEC 62053-21	
Accuracy	Class 1	
Mounting	DIN rail (DIN 43880)	
Sealing	IP51 Indoor	
Nominal Voltage Input	(Ph+N) 230V AC (176-276V AC)	
Max Continuous Voltage	120% of nominal	
AC Voltage Withstand	4KV for 1 minute	
Impulse Voltage Withstand	6KV-1.2μS	
Current Input	0.25-5A(6)A AC RMS	
Operational Current Range	0.4% lb-lmax	
Over current withstand	20Imax for 0.01s	
Nominal Input Current Burden	0.5VA	
Frequency	50Hz(±10%)	
Power Consumption	≤ 2W/10VA/phase	
Accuracy		
Voltage, Current	0.5%	
Frequency	0.2% of Mid-Frequency	
Power Factor	1% of Unity (0.01)	
Active Power, Apparent Power	≤ 1% of Range Maximum	
Reactive Power	≤ 1% of Range Maximum	
Reactive Energy (Varh)	Class 2	
Active Energy (Wh)	Class 1	
Modbus		
Bus Type	RS485 (Semi-Duplex)	
Protocol	Modbus RTU	
Baud Rate	1200/2400/4800/9600bps	
Address Range	1-247	
Max. Bus Loading	64pcs	
Communication Distance	1000 Meters	
Parity	EVEN/ODD/NONE	
Data Bit	8	
Stop Bit	1	

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## **SDM120 Terminals**



sdm120ct\_series\_datasheet.pdf sdm120ct\_protocol.pdf

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