



SDM120 A / D / DB
SINGLE PHASE 2 WIRE KWH METER

- 45A MAX. direct load
- One module wide
- Active energy measured
- Pulse output
- Din rail mounted



SDM 230A/D
SINGLE PHASE 2 WIRE KWH METER

- 100A MAX. direct load
- Two module wide
- Active energy measured
- Pulse output
- Din rail mounted

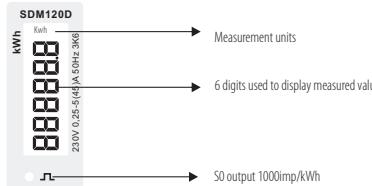
Specification	
Model	120A/120D/120DB
Display	SDM120A electromechanical register SDM120D LCD SDM120DB LCD with Backlit
Nominal voltage(Un)	120V or 230V ac
Operational voltage	80%~120% of Un
Insulation capabilities	
- AC voltage withstand	4kV for 1 minute
- Impulse voltage withstand	6kV-1.2μs
Basic current (Ib)	5A
Maximum rated current (Imax)	45A
Operational current range	0.4% Ib-Imax
Over current withstand	30 Imax for 0.01s
Operational frequency range	50 / 60Hz
Internal power consumption	≤ 2W/10VA
Pulse output	1000imp/kWh
Max reading	99999.9 kWh

Performance criteria	
Operating humidity	≤ 90%
Storage humidity	≤ 95%
Operating temperature	-25°C - +55°C
Storage temperature	-40°C - +70°C
Reference temperature	23°C± 2°C
International standard	IEC62053-21 / EN50470-1/3
Accuracy class	Class1/Class B
Installation category	CAT II
Mechanical environment	M1
Electromagnetic environment	E2
Degree of pollution	2
Protection against penetration of dust and water	IP51(indoor)
Insulating encased meter of protective class	II
Electrostatic discharges	8kV contact / 15kV air gap
Electromagnetic HF fields	IEC 61000-4-3
Electrical fast transients	4kV
Surge	4kV
Radiated & conducted emissions	EN 55022



The SDM120 A/D/DB series provides an uni-direction (anti-reverse) measurement model. It would only counts the forward energy , and not counts the reverse energy. It is widely used in solar generation energy measurement.

► Description

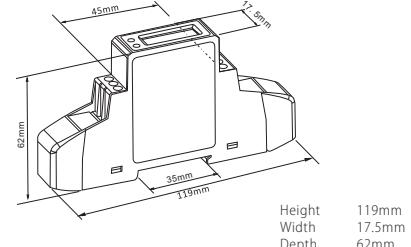


Pulse output



ATTENTION: Pulse output must be fed as shown in the wiring diagram below. Scrupulously respect polarities and the connection mode. Opto - coupler with potential -free SPST-NO Contact.
Contact range:5~27VDC Max. current
Input:27mA DC.

Dimensions



Height
Width
Depth
119mm
17.5mm
62mm

Specification

Model	SDM 230A / SDM230D
Display	SDM230A electromechanical register SDM230D LCD
Nominal voltage(Un)	120V or 230V ac
Operational voltage	80%~120% of Un
Insulation capabilities	
- AC voltage withstand	4kV for 1 minute
- Impulse voltage withstand	6kV-1.2μs
Basic current (Ib)	10A
Maximum rated current (Imax)	100A
Operational current range	0.4% Ib-Imax
Over current withstand	30 Imax for 0.01s
Operational frequency range	50 or 60Hz
Internal power consumption	≤ 2W/10VA
Pulse output	1000imp/kWh
Max reading	99999.9 kWh(SDM230A) 99999.9 kWh(SDM230D)

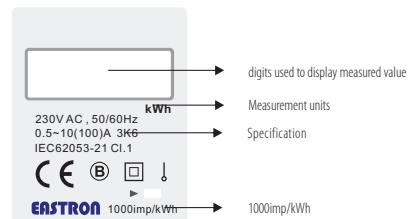
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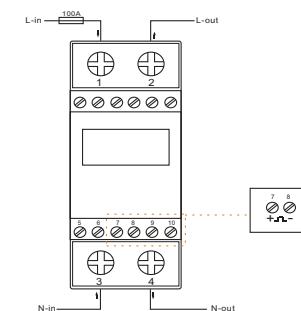
Mechanics

Din rail dimensions	99x36x63 (WxHxD) DIN 43880
Mounting DIN rail	35mm
Sealing	IP51 (indoor)
Material	self-extinguishing UL94V-0

► Description



► Wiring diagrams



► Dimensions

