

SD10 SERIES

Single Phase Direct Input Multifunctional Energy Meter
SD10M/SD10MT/SD10P

Features:

- RS 485 Modbus RTU;
- Max.100A Direct Input;
- Multifunctional Parameters: V, A, W, Var, VA, kWh, kVarh, PF, ...;
- Bidirectional Measurement: Imp/Exp Active Energy, Imp/Exp Reactive Energy;
- 4 Tariffs, 8 Time Segments;
- 1 Module, TH35-7.5 DIN-Rail.



SD10 series are single phase multifunctional energy meter to measure and analyze the most important electrical parameters, including voltage, current, power factor, and etc. And it can also read a variety of energy parameters, involving bidirectional active and reactive energy, monthly and daily energy consumption statistics, and so on.

The SD10 series have RS485 communication interface with highest baudrate 19200bps, supporting Modbus or DLT645 protocol for remote reading.

At the same time, the touch buttons help users to view and set various measurement parameters on site. Password protection function is added to greatly improve the data security.

Selection Table

	Multiparameters	IMP&EXP	Multi-tariffs	RS485 Modbus
SD10P	●			
SD10M	●	●		●
SD10MT	●	●	●	●

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Electrical Parameters

Power Consumption	Voltage Circuit: <2W/10VA Current Circuit: <1VA
Voltage/Current	Class 0.5/Class 1
Active Power	Class 0.5/Class 1
Reactive Power	Class 2
Apparent Power	Class 1
Active Energy	Class 0.5/Class 1
Reactive Energy	Class 2
Power Factor	Class 1
Frequency	Class 0.2
Data Upgrading Rate	1s (Optional: 100ms)
Rated Voltage	230 VAC
Voltage Input	Range: 176 ~ 276 VAC
Frequency	45 ~ 65 Hz
Overload Capacity	2x Rated Voltage by lasting 1s
Current Input	0.25 ~ 100 A, Rated: 5A
Overload Capacity	30x Max. Current by lasting 0.01s
Pulse Light on Meter	Pulse Constant: 1000imp/kWh
Accuracy of RTC	0.5 s/d
International Standard	IEC62053-21

Communication Specifications

Interface and Protocol	2 Wire RS485; Modbus RTU, DL/T645-2007
Baudrate	1200,2400,4800,9600,19200bps
Parity	None, Even, Odd
Stop Bit	1, 2
Response Time	<100ms
Bus Type	Semi-duplex
Distance	Max. 1000m
Bus Load	Max. 64pcs

Mechanical Specifications

IP Class	LCD display: IP51(Indoor) ; Whole meter: IP30
Installation	TH35-7.5 DIN Rail
Flammability Class	UL 94 V-0
Utilization Category	UC 2

Environment Specifications

Operation Temperature	-25 ~ +55°C
Storage Temperature	-40 ~ +80°C
Humidity	<90%, no condensing
Pollution Degree	2
Altitude	<2000m
Vibration Frequency	Range: 10~150Hz

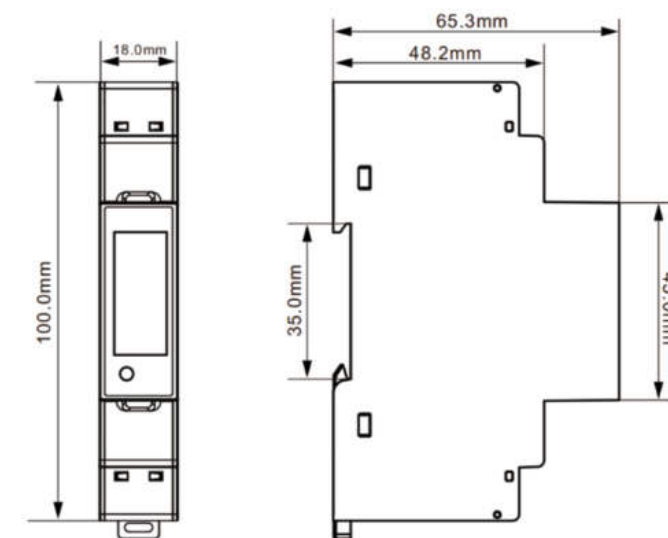
Safety Specifications

Installation Degree	CAT III
Over-voltage Degree	CAT III
Insulation	AC Withstand Voltage: 4kVAC by lasting 1min Pulse Withstand Voltage: 6kVAC - 1.2/50μs waveform
Insulation Degree	Double Insulation

Please find more details via:



Product Size



Wiring Diagram (see more in user manuals)

