

SDM630MCT 40mA/V2

DIN Rail Energy Meter for Single and Three Phase Electrical Systems

- ▶ Measures kWh kVA_{rh}, kW, kVA_r, kVA, P, F, PF, Hz, dmd, V, A, THD, etc.
- ▶ Bi-directional measurement IMP & EXP
- ▶ Two pulse outputs
- ▶ RS-485 Modbus
- ▶ Din rail mounting 35mm
- ▶ 40mA / 1A / 5A CT connection
- ▶ Better than Class 1 / B accuracy



MODEL	SDM630MCT40mA	SDM630MCT V2
Type of Measurement	RMS including harmonics on three phase AC system (3P,3P+N)	
Power	0.5% of range maximum	0.1% of range maximum
Active Energy	IEC 62053-22 Class 0.5S; IEC 62053-21 Class 1.0	
Reactive Energy	IEC 62053-23 Class 2	
Frequency	0.2%of mid-frequency	
Current	0.5% of range maximum	
Voltage	0.5% of range maximum	
Power Factor	1% of unity (0.01)	
Input		
CT Secondary	40 mA	1 A / 5 A
CT Primary	1 - 9999 A	
Rated Voltage (Un)	230 V LN 120 V L-N	
Operational Voltage	80% ~ 120% of Un	
Output		
SDM630MCT mV/mA Series	2 Pulse Outputs + RS-485 Modbus	
RS-485 Modbus Communications		
Communication Address	1 ~ 247	
Transmission Distance	1000 m Maximum	
Transmission Speed	1200 bps ~ 38400 bps	
Parity	None (default), Odd, Even	
Stop Bits	1	
Response Time	< 100 ms	

* SDM630MCT V2 smart meter is recommended to be used along with C&I string inverters.

** It has not included Current Transformers. Users should choose the CT that meets the following requirements:

1. The selected CT's primary rating should be larger than the maximum current passing through the system's AC busbar.
2. Maximum Current = system capacity / 230 / 3

*** Please consult Kstar for more details.