

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
- ▶ 1A / 5A CT connection
- ▶ Better than Class 1 / B accuracy



MODEL	SDM630MCT 40mA	SDM630MCT V2
Type of Measurement	RMS including harmonics on three phase AC system (3P,3P+N)	
Power	0.5% of range maximum	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	120 A	1 ~ 9999 A
Rated Voltage (Un)	380 / 400 V a.c.	
Operational Voltage	173 to 480 V a.c. (L-L)	
Communications		
Communication Protocol	Modbus RTU	
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.

