

THREE-PHASE ENERGY METER

EASTRON SDM530CT

Three-phase smart DIN-rail energy meter

Item code **M0008**

- › 5A CT operated
- › 7 Module wide
- › 2 Pulse outputs
- › RS485 Modbus communication
- › Bi-directional measurement for Import/Export
- › Multi measurements: kWh, kvarh, W, var, VA, PF, Hz, dmd, V, A and more



FEATURES



Perfect for submetering and remote monitoring **Ideal meter for industrial environments**

- › High accuracy and remote communication makes the meter perfect for use in single and three-phase networks.
- › This 5A CT Modbus meter is ideal for larger installations that have high power demands or increased usage.

DESCRIPTION

The SDM530-CT is an advanced digital three-phase multifunction energy meter, which can be used for both single and three-phase networks.

Its high accuracy, remote communication and ease of installation makes the 5A CT Modbus meter the perfect meter in industrial environments with a higher power demand or increased usage, like shopping malls, office buildings, factories and utility infrastructure.

The three-phase four-wire 7-module wide DIN rail meter is reliable and durable with a low power consumption. On screen setup and button navigation simplifies the installation process.

The meter features an LCD screen for perfect reading of a broad range of electrical parameters - active energy (kWh), reactive energy (kvarh), active power (W), reactive power (var), apparent power (VA), voltage (V), current (A), power factor, demand and frequency.

SPECIFICATIONS

Nominal voltage(Un)	› 3x230V/400V ac	Display	› LCD
Operational voltage	› 80%~120% of Un	Basic current (Ib)	› 5A
Insulation capabilities	› AC voltage withstand › 4KV for 1 minute	Maximum rated current (Imax)	› 100A
	› Impulse voltage withstand › 6KV-1.2μS	Operational current range	› 0.4% Ib-Imax
Operational frequency range	› 50 / 60Hz	Over current withstand	› 20 Imax for 0.01s
Power consumption per phase	› ≤ 2W / 10VA	Max reading	› 99999.99 kWh

PERFORMANCE CRITERIA

Operating humidity	› ≤ 90%	Degree of pollution	› 2
Storage humidity	› ≤ 95%	Installation category	› CAT III
Operating temperature	› -25°C - +55°C	Mechanical environment	› M1
Storage temperature	› -40°C - +70°C	Electromagnetic environment	› E2
Reference temperature	› 23°C± 2°C	Accuracy class	› Class1/Class B
International standard	› IEC 62053-21 / EN50470-1/3	Protection against penetration of dust and water	› IP51(indoor)
Insulating encased meter of protective class	› II		

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 (half-duplex, 2 wire)
Protocol	› Modbus RTU
Baud rate	› 1200/2400/4800/9600bps
Address range	› 1-247
Max. Bus loading	› 64pcs
Communication distance	› 1000M
Parity	› EVEN/ODD/NONE

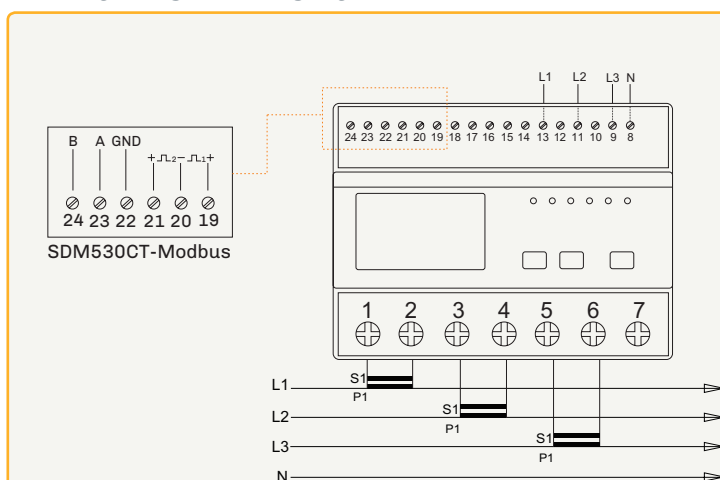
PULSE OUTPUTS

Pulse outputs	› 2
Pulse output type	› Passive
Pulse output 1	› Configurable
Pulse width	› 200/100(default)/60ms
Pulse output 2	› 1000imp/kWh

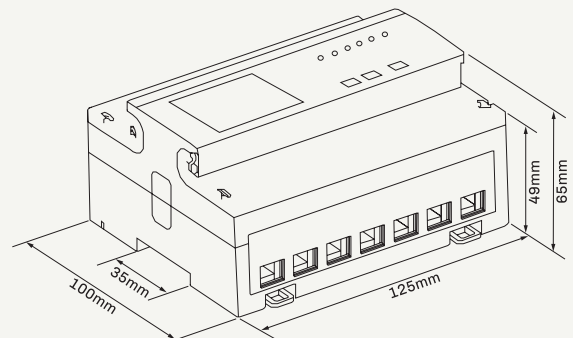
MULTI-TARIFF

Time clock accuracy	› <1s/day
Tariff	› 4
Time segments	› 10

WIRING DIAGRAM



DIMENSIONS



Width: 125mm
Height: 100mm
Depth: 65mm

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