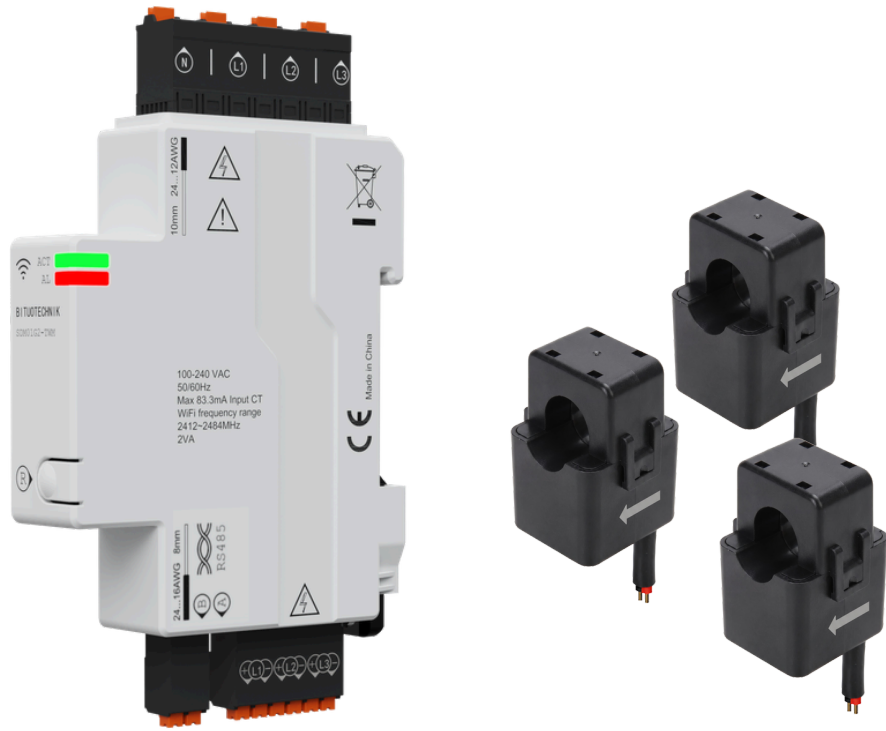


SDM01 Combo Gen2

Three-Phase Compact Energy Meter with Clamp CTs

The SDM01 Combo Gen2 maintains the ultra-slim 18mm (1-module) profile for precise monitoring of three-phase or multiple single-phase circuits. Equipped with three split-core CTs, it accurately measures voltage, current, power, and energy. It supports both wired and wireless communication for flexible and seamless system integration. Its ultra-fast bi-directional power measurement makes it particularly suitable for export limiting application.

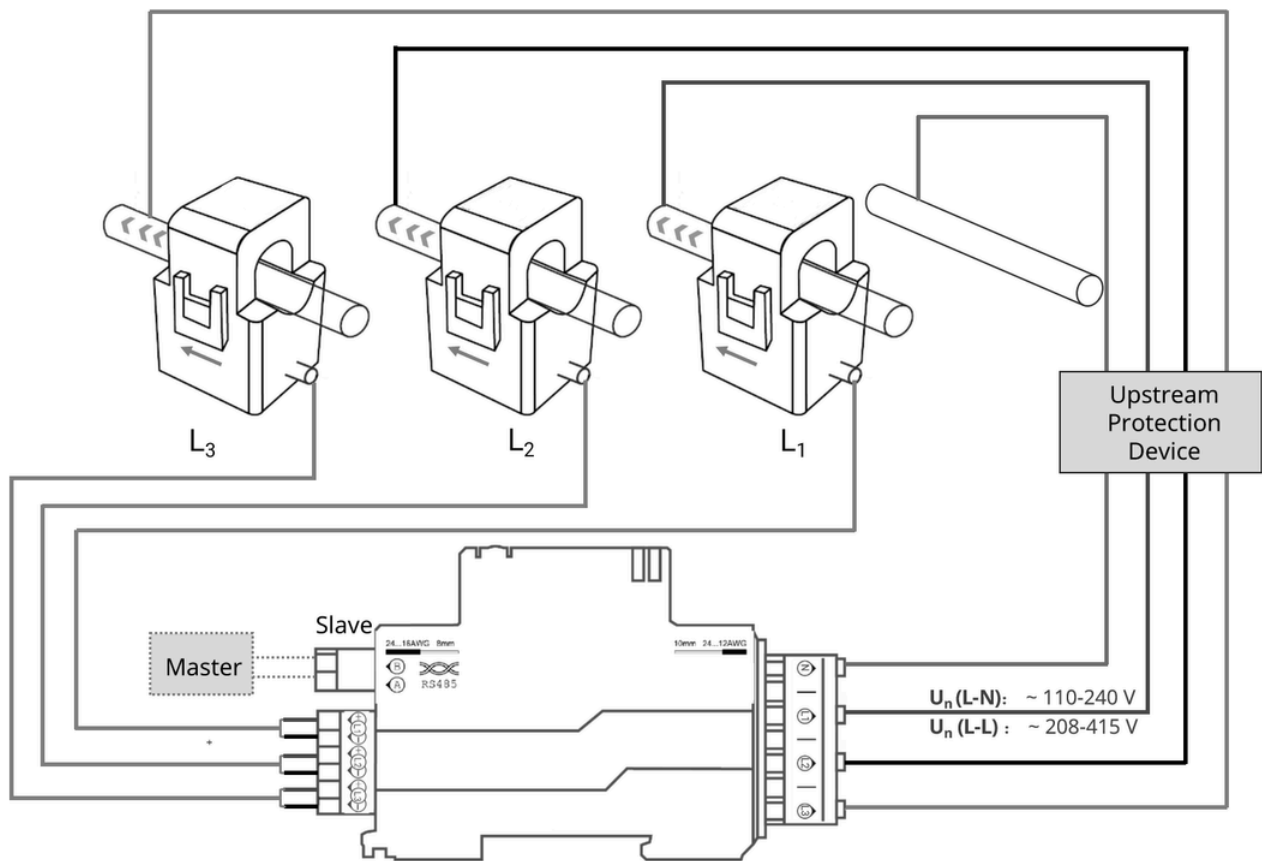


Technical Data

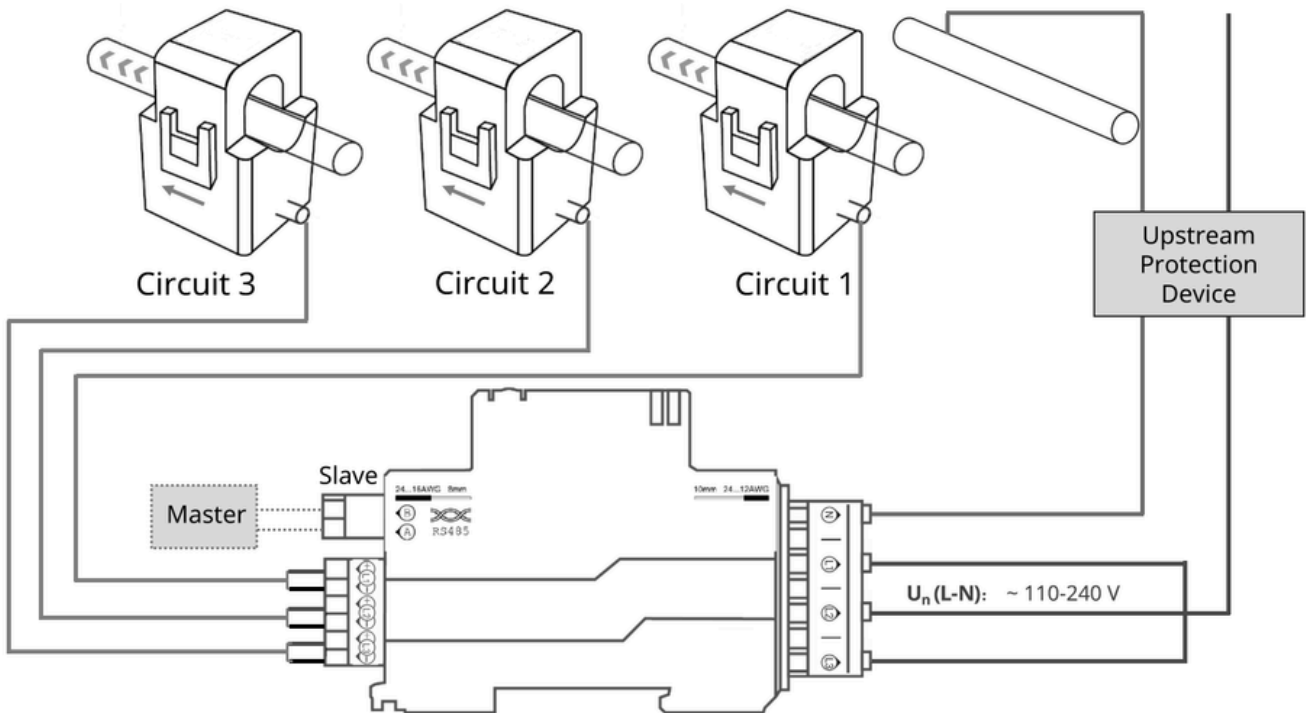
Rated voltage (Input)	220~240 VAC L-N, 50/60 Hz 380~415 VAC L-L, 50/60 Hz	Power Supply	100~240 VAC (L ₁ -N)
Max monitoring current	50 / 120 / 200 / 300 / 400A	Maximum Power consumption	≤ 2VA
Over-voltage category	III	Rated operating temperature	-25 to 55 °C
Rated insulating voltage	440V	Main module dimension	113.7×18.0×65.9mm
Rated impulse withstand voltage	4kV	Clamp CT apertures	Ø10 / 16 / 20 / 24 / 36 mm
Pollution degree	3	Communication Type	
Protection degree	IP20	- Wireless	BLE+Wi-Fi; Zigbee
Measurement accuracy	Class 1 (active energy)	- Wired	RS485

Wiring Diagrams

Three-phase (3P4W) System Wiring



Single-phase System Wiring up to 3 Branch Circuits



Remark

- 1) Not suitable for 3P3W installation.
- 2) ⚠ The device must be installed, operated, serviced, and maintained ONLY by qualified professionals. Please read the user guide carefully before installation. The user guide is a separate document from the datasheet.

Ordering Code

SDM01G2-TWM-12	3PN 120A Tuya Wi-Fi + 485 (1 x TW+485 Main Unit and 3 x 120A Clamp CTs)
SDM01G2-SZM-12	3PN 120A Standard Zigbee + 485 (1 x ZB+485 Main Unit and 3 x 120A Clamp CTs)
SDM01G2-TWM	SDM01 Gen2 Main Unit TW+485 (spare part only)
SDM01G2-SZM	SDM01 Gen2 Main Unit SZ+485 (spare part only)
BSCT-16B 120A/40mA	Clamp CT 16-B White 120A/40mA (spare part only)

Note: 120A CTs are included as standard for home and small business application, and 50A, 200A, 300A, and 400A CTs are available upon request.