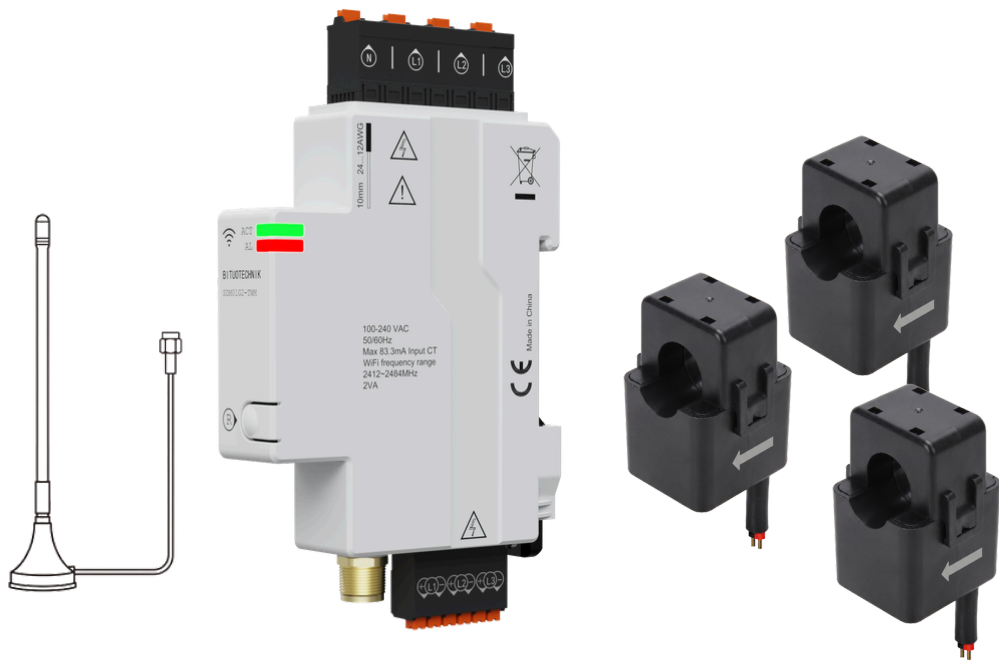


SDM01 G2X

Compact Energy Meter with Clamp CTs

The SDM01 G2X is an ultra-slim 18mm energy meter for precise three-phase or multiple single-phase monitoring. It delivers high-speed reporting for dynamic load balancing and export limiting, alongside an external antenna for reliable connectivity.

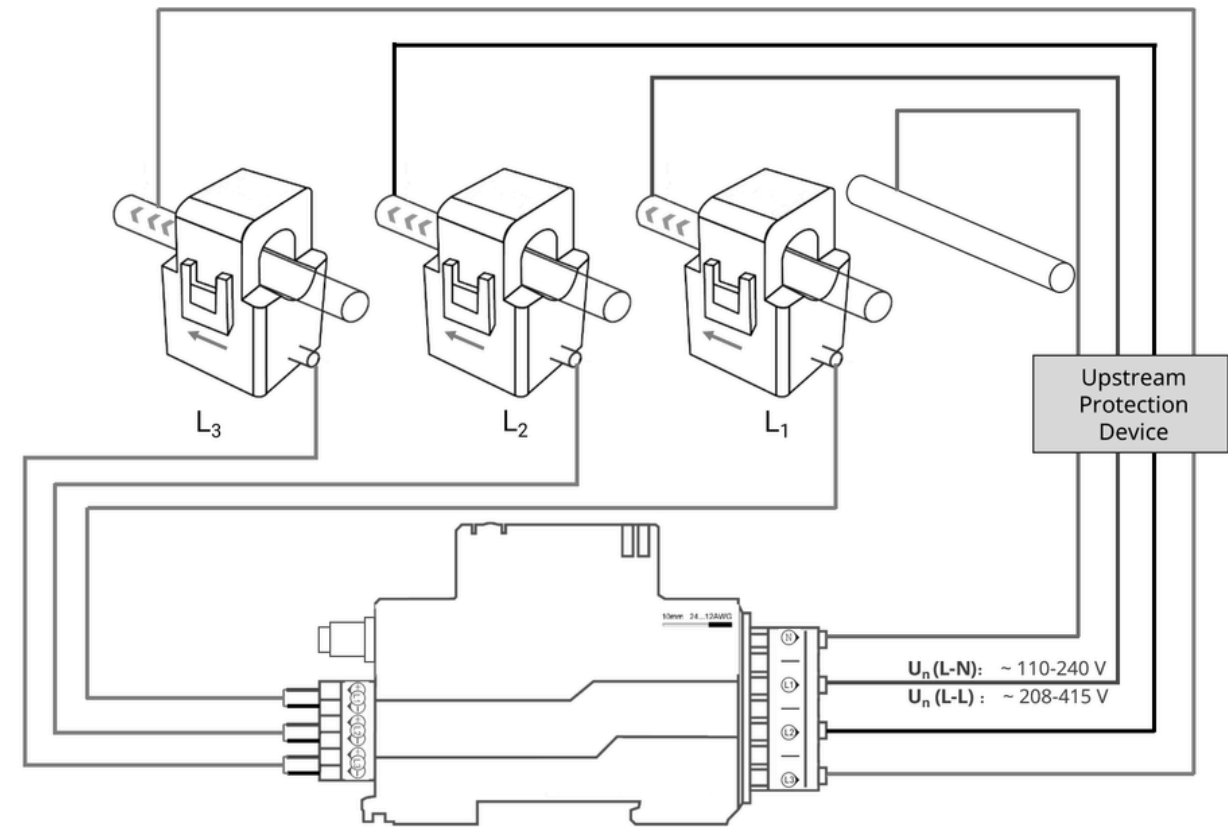


Technical Data

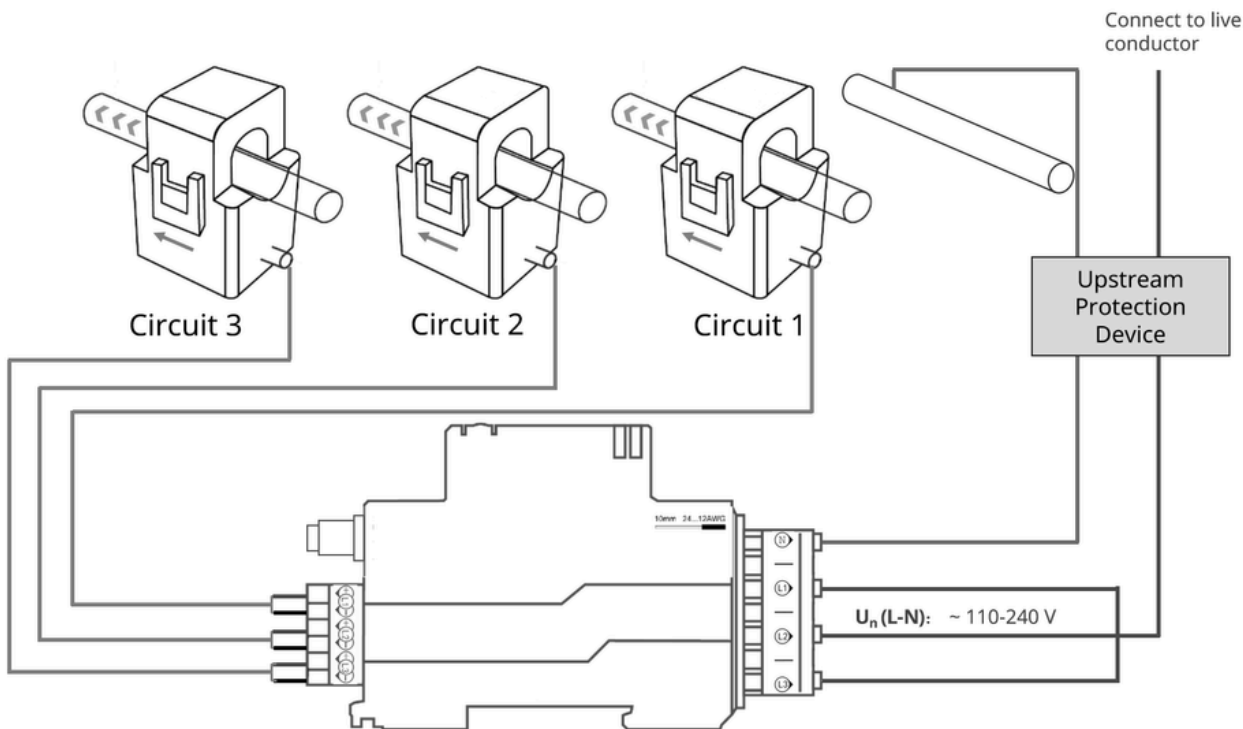
Rated voltage (Input)	220~240 VAC L-N, 50/60 Hz 380~415 VAC L-L, 50/60 Hz	Power Supply	100~240 VAC (L ₁ -N)
Max monitoring current	50 / 120 / 300 / 400A	Maximum Power consumption	≤ 2VA
Over-voltage category	III	Rated operating temperature	-25 to 55 °C
Rated insulating voltage	440V	Main module dimension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

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

SDM01G2X-TW-12	3PN 120A Tuya Wi-Fi (1 x Tuya WiFi+485 Main Unit and 3 x 120A Clamp CTs)
SDM01G2X-EW-12	3PN 120A Open Wi-Fi (1 x ESP32-C6 WiFi+485 Main Unit and 3 x 120A Clamp CTs)
SDM01G2X-CL-12	3PN 120A CN470 LoRaWAN (1 x 470MHz LoRaWAN+485 Main Unit and 3 x 120A Clamp CTs)
SDM01G2X-EL-12	3PN 120A EU868 LoRaWAN (1 x 868MHz LoRaWAN+485 Main Unit and 3 x 120A Clamp CTs)
SDM01G2X-AL-12	3PN 120A AS923 LoRaWAN (1 x 923MHz LoRaWAN+485 Main Unit and 3 x 120A Clamp CTs)
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.