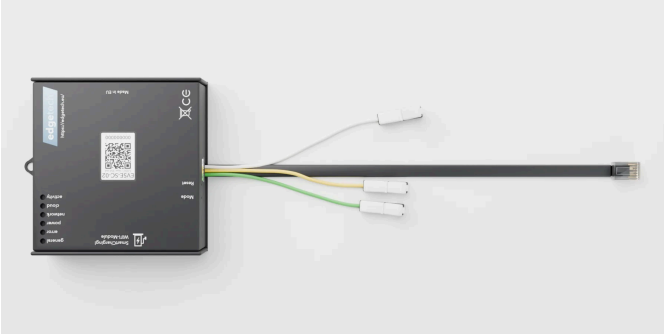
EVSE-SC-02 SHIPPED

Edge Smart Load Balancer

Current-generation site controller. Reads the DSMR/ESMR 5 smart meter through its P1 port, so it needs no clamps, sees import and export per phase, and dynamically limits up to 10 Edge charge controllers. Solar-surplus charging, WiFi, MyCharger app.

With the RS485 bus wires and the P1 cable



Top: status LEDs (general, error, power, network, cloud, activity)

IN SHORT

The site controller EdgeTech ships today. Plug it into the P1 port of the smart meter and it knows, every second, what the whole installation draws or exports on each phase. From that it gives each charge controller a current limit, once per second, over RS485.

Because it reads the meter instead of clamps, it sees the direction of current. That makes solar-surplus charging work: the car is charged from what the roof produces, and the grid limit is respected at the same time.

Firmware updates arrive over the air. What changed in each version: firmware release notes.

PRICE € 145 excl. VAT · € 175.45 incl. VAT

CAD STEP and drawing: edgetech.eu/cad/evse-sc-02.step

KEY FACTS

SPECIFICATION	VALUE
Charge points	Up to 10 EVSE-C-3x32A on one RS485 bus (8 recommended for sites with many simultaneous sessions)
Site measurement	P1 port of a DSMR 5.0 / ESMR 5.0 smart meter (Netherlands, Belgium); per-phase import and export power, per-phase voltage and current
Load balancing	Per-second current limit per charge point; site limit, solar mode and 1P/3P per socket configurable; minimum 6 A per car, start threshold 8 A
Solar charging	Surplus mode charges only on export; solar-assist mode tops up from the grid. Uses meter export values, not clamps.
Fieldbus	Modbus RTU master, RS485, 19200 8N1 (switches fresh charge controllers from 9600 automatically)
Bus cable	3 × 0.75 mm² multi-core (stranded). No solid-core cable and no raw Ethernet cable in the terminals; Ethernet only with RJ45 connectors (adapter board on request)
Connectivity	WiFi IEEE 802.11 b/g/n, 2.4 GHz only; MQTT over TLS with a per-device pre-shared key
Module	WiFi module (2.4 GHz)
Supply	From the P1 port (meter must supply ≥ 250 mA) or 5 V via micro-USB
Dimensions	88 × 90 × 25 mm, mounted next to the meter, not inside the distribution board
Setup	WiFi credentials via the Mode pinhole (hold 3 s) and the MyCharger app; restart by unplugging the RJ12 for 3 s
CE	EU declaration of conformity on request
Made in	Europe

Test it in your project: info@edgetech.eu

Full specifications: edgetech.eu/products/evse-sc-02