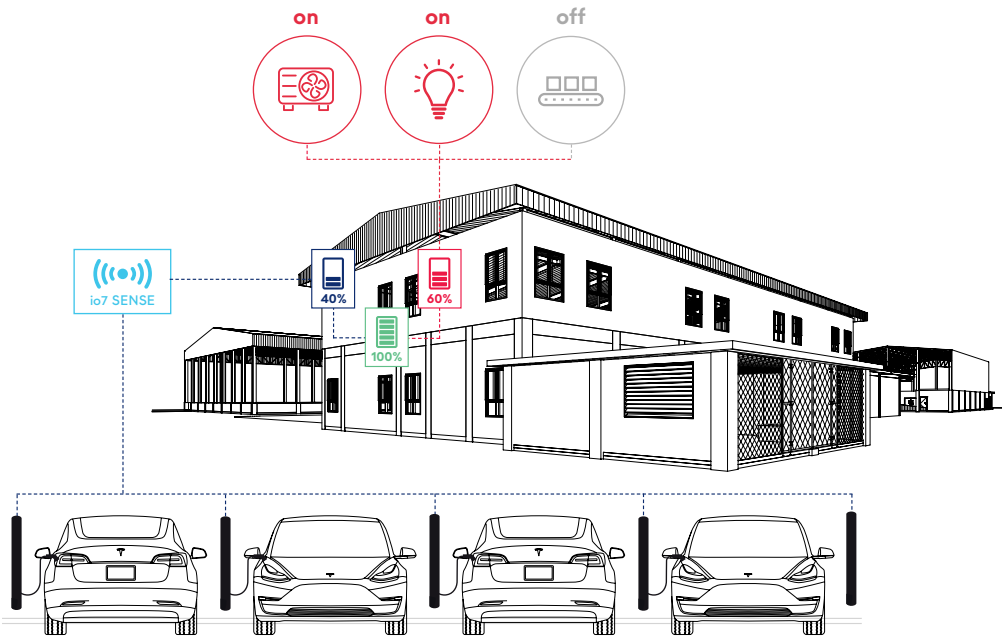




io5/io6 INSTALL SCENARIOS

LOAD MANAGEMENT



DYNAMIC LOAD MANAGEMENT

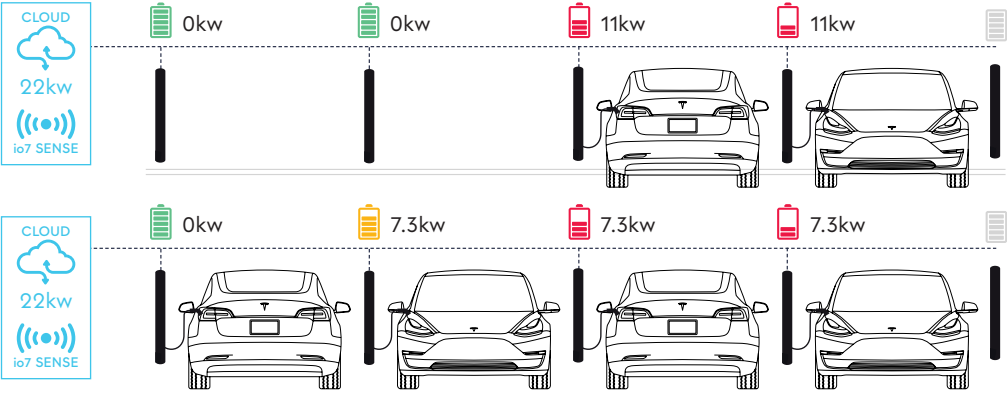
Monitors the building's energy supply and usage, calculating the power available and distributing it equally to the EV charger installation.

As the building power consumption increases e.g. heavy machinery being switched on or off, the io7 Sense will increase or decrease the power available to the EV charger installation.

Load management of EV charging equipment is designed to maximise charging speeds whilst protecting the electrical installation and building infrastructure.

STATIC LOAD MANAGEMENT

Involves the installation of EV charging equipment on a dedicated power supply that has a known fixed power capacity. The EV chargers are designed to effectively manage this power supply by evenly distributing the load between them as more sockets are utilised. This can be done at Cloud level (using back-office software) or locally to the chargers using the io7 Sense.



KEY INFORMATION REGARDING THE INSTALLATION SCENARIOS:

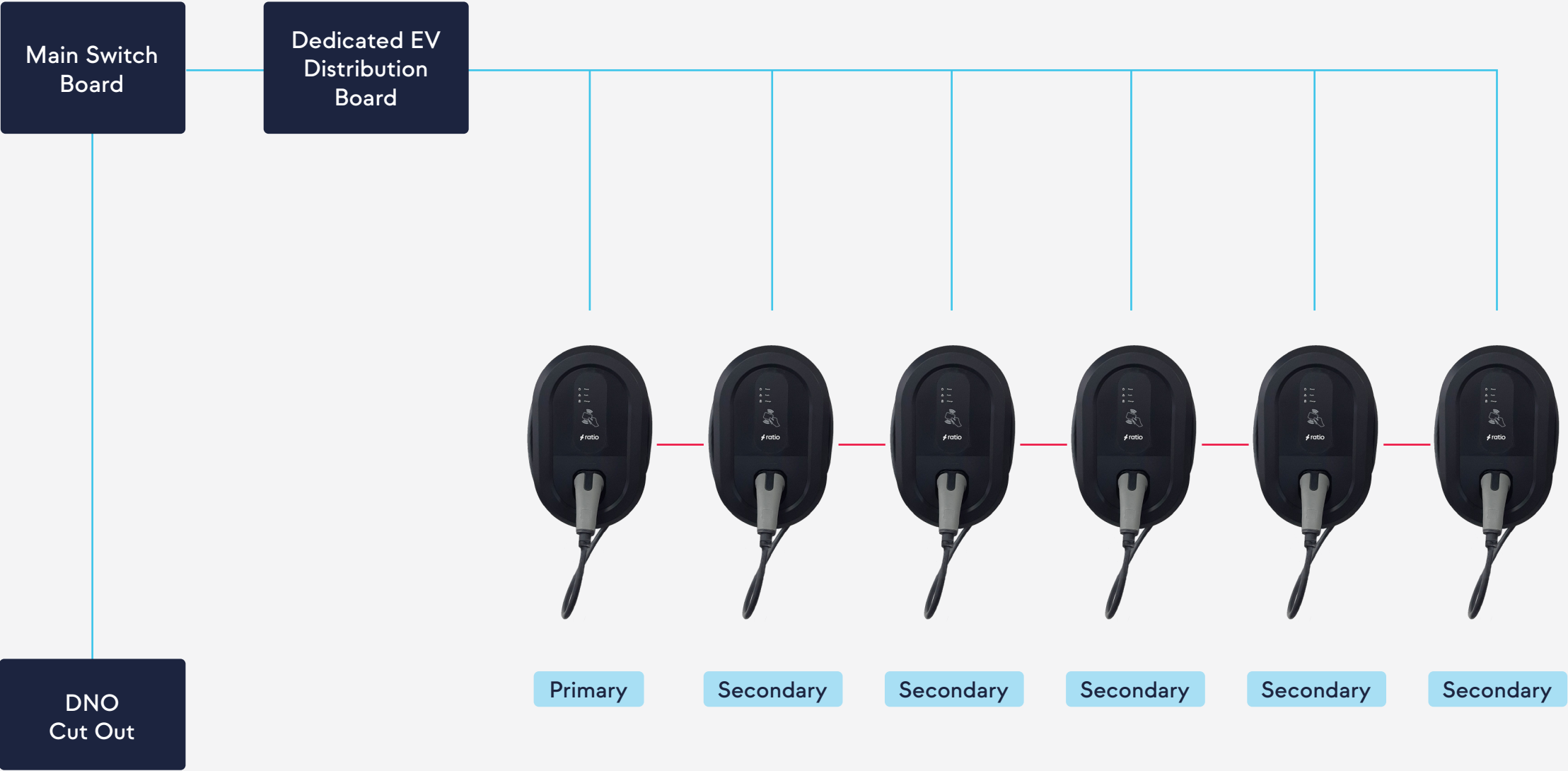
- **Network Switch:** Dedicated to the charger network only, must not be connected to the building network, and is usually mounted near the main power supply..
- **Load Management:** When load managing single-phase chargers across three phases on a supply, secondary chargers may be single-phase devices; however, the primary charger must be a three-phase MID unit.
- **Dynamic Load Management:** A dedicated EV distribution board is recommended; however, chargers can be fed from the main switchboard or multiple distribution boards, provided all are connected back to the same network switch.

KEY

- Mains cable
- Ethernet cable
- CT Clamp



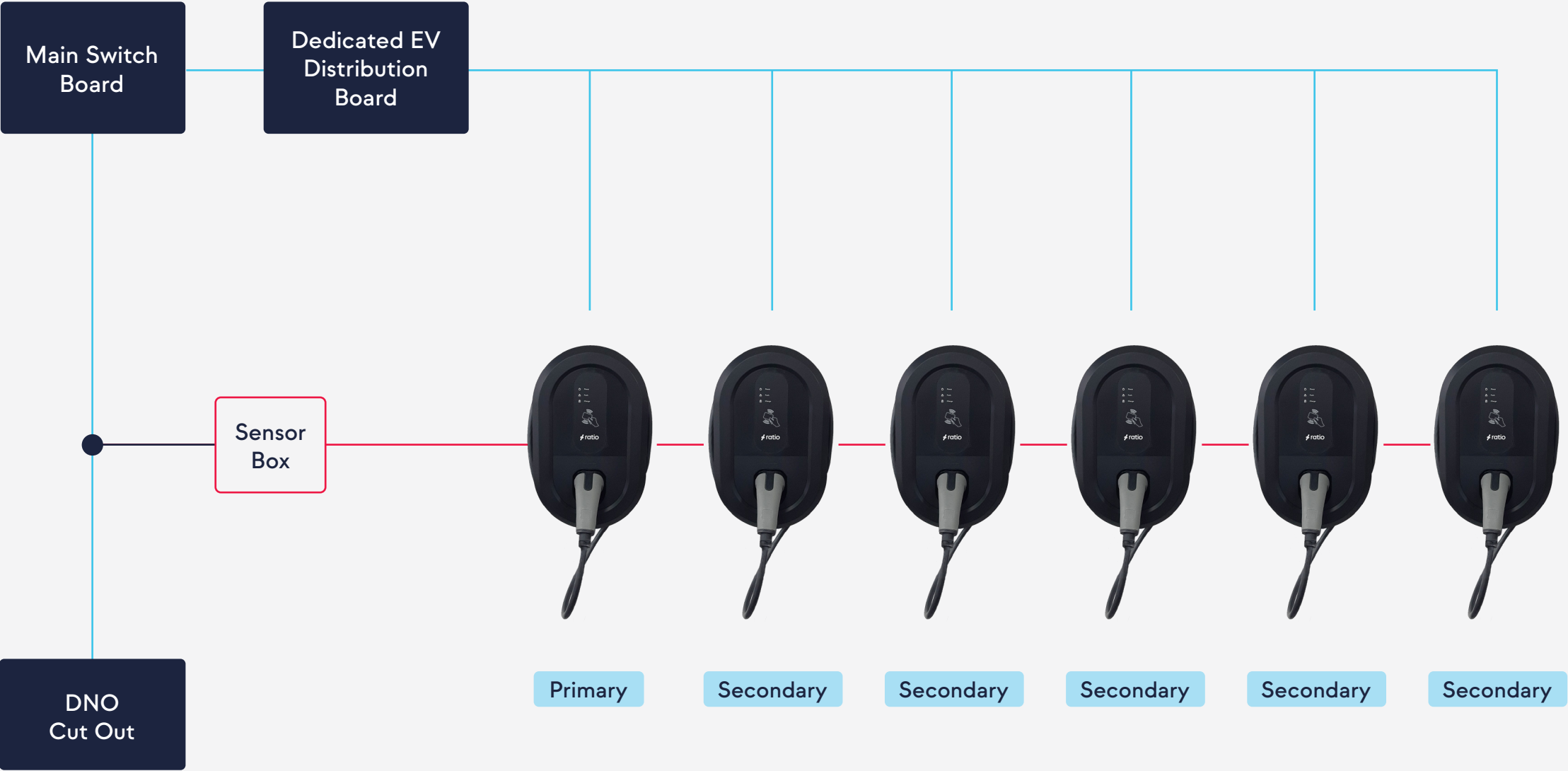
SCENARIO 1:
STATIC GROUP LOAD MANAGEMENT - UP TO 32 SOCKETS



All Chargers must be on the same phase selection

SCENARIO 2:
DYNAMIC GROUP LOAD MANAGEMENT - UP TO 32 SOCKETS WITH SENSOR BOX

ratio

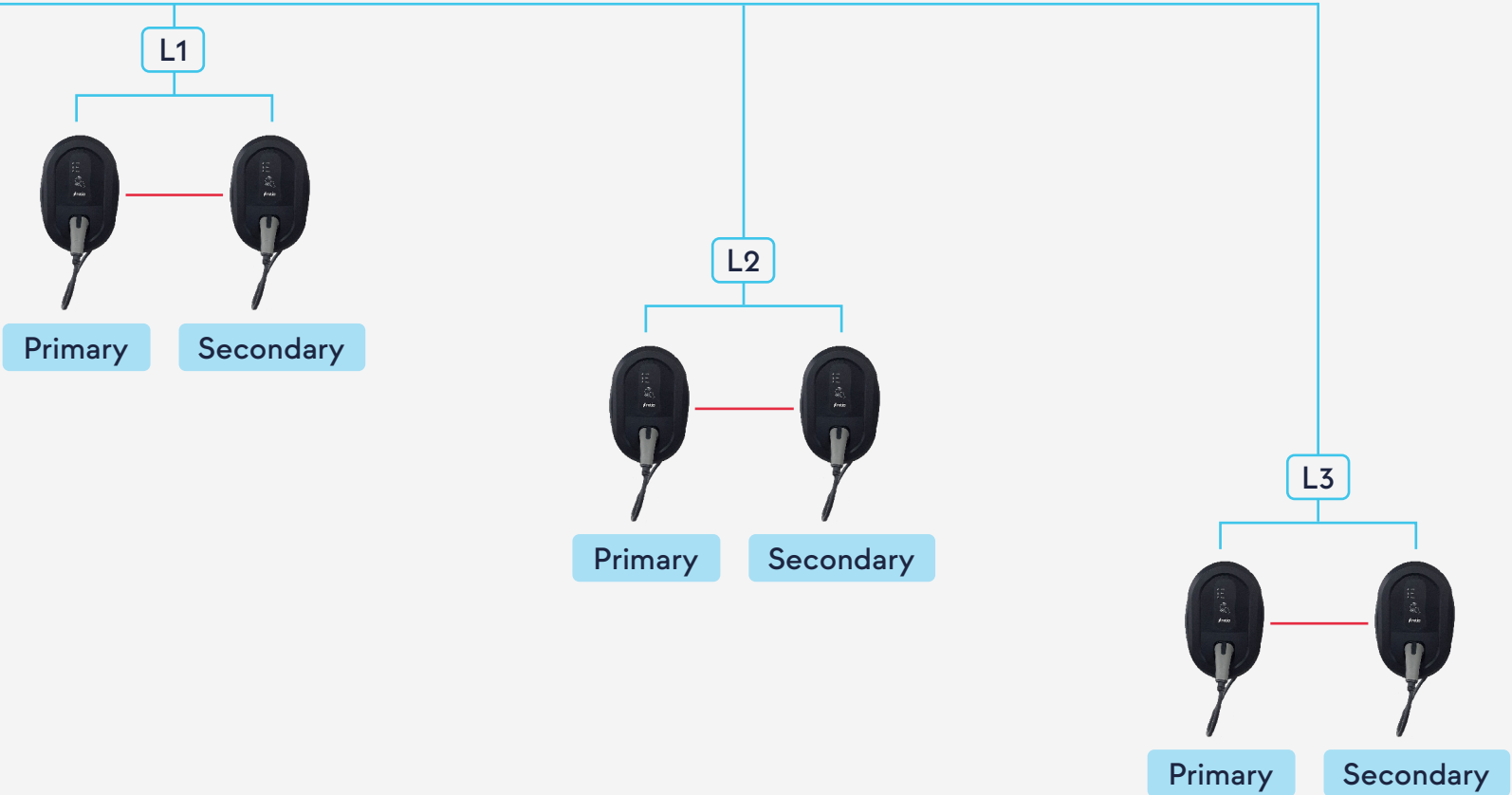


All Chargers must be on the same phase selection

SCENARIO 3:
STATIC GROUP LOAD MANAGEMENT - UP TO 32 SOCKETS



Main Power Demand



Single phase chargers off 3 phase supply

SCENARIO 4:
GROUP DYNAMIC LOAD MANAGEMENT - UP TO 32 SOCKETS WITH SENSOR BOX

ratio



Main Power Demand





NEED SOME ASSISTANCE?

Contact our UK based Technical Support Team on:
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