



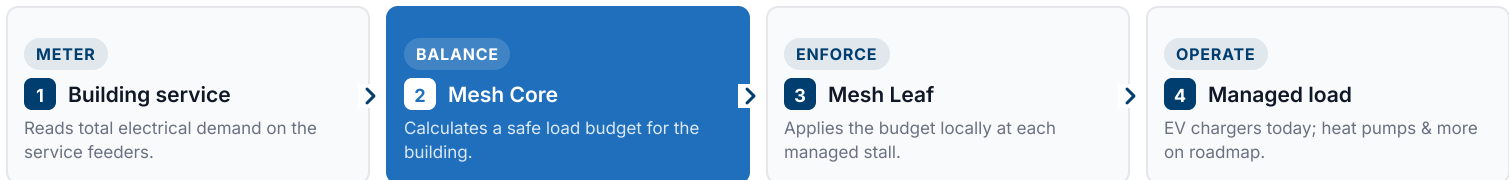
Mesh Core

Service entrance controller · building-wide wireless load management

The Mesh Core installs in your existing electrical / service room and continuously meters the incoming utility feeders. It calculates available load capacity and broadcasts a safe limit by long-range mesh radio to every Mesh Leaf unit in the building — coordinating EV chargers today, with heat pumps and other flexible loads on roadmap. No new conduit, no internet, no service upgrade for suitable sites.

- No trenching**
Wireless link to every stall — no inter-room conduit.
- No service upgrade**
Works inside the building's existing service envelope.
- Flexible-load ready**
EV chargers today; heat pumps and other loads next.

SYSTEM ARCHITECTURE



KEY FEATURES

- ✓ Monitors up to **3 distribution points** (3φ or 1φ, 9 CTs)
- ✓ Sheds load at **80% of any monitored point**
- ✓ Fail-safe hardware and software design
- ✓ Compact **12" × 10" × 5"** steel enclosure
- ✓ Balances up to **8 Mesh Leaf groups** via FIFO logic
- ✓ Long-range mesh radio — no Wi-Fi, internet, or cellular
- ✓ 120 V hardwired, dedicated 15 A-1P circuit
- ✓ CSA SPE-1000 approved · designed and built in BC

SPECIFICATIONS

System	EVEMS · multi-load energy management
Distribution monitored	Up to 3 points, each 3φ or 1φ (9 CTs total)
Control groups	Up to 8 Mesh Leaf groups, FIFO-balanced
Safety threshold	Sheds managed load when any point exceeds 80% of rating
Comms	Long-range mesh radio — no internet required
Power input	120 V hardwired, dedicated 15 A-1P circuit
Enclosure	12"H × 10"W × 5"D, CSA SPE-1000 approved
Mounting	Surface mount in electrical / service room
Origin	Designed and manufactured in Canada
Warranty	2 years parts & labour, extended options

WHAT YOU CAN COUNT ON

● FAIL-SAFE BY DESIGN

The Core watches every monitored distribution point. If any approaches 80% of its rating, managed-load groups are shed longest-on first. If radio to a Leaf is lost, that Leaf falls back to a conservative configured current — never an unmanaged full-rate draw.

● YOU OWN THE HARDWARE

No monthly fees. No per-charge fees. No subscription contracts. 2-year parts & labour warranty, extended options available.

DESIGNED AND BUILT IN BC · COMPLIANT WITH

- SPE-1000 EV INFRASTRUCTURE
- ELECTRICAL SAFETY AUTHORITY
- OHS-COMPLIANT INSTALLS
- MEMBER FIRM
- Alliance Member
UTILITY PARTNER