NEW!

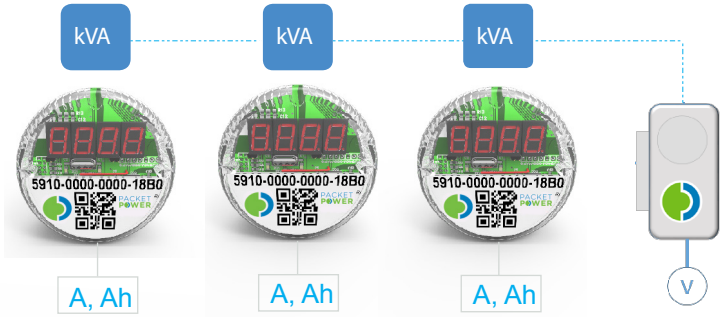
# PACKETPOWER

## WIRELESS SMART CURRENT MONITOR


## THE SMART SOLUTION FOR BASIC MONITORING

***Monitoring made easy:*** The Packet Power Smart Current Monitor monitors up to six circuits. Housed in a compact enclosure that mounts into a single standard knockout hole, the design of the unit places a premium on compact size, low cost and installation simplicity. As soon as the monitors are energized, they automatically form a highly reliable wireless mesh network for a true plug and play installation.

***VA per circuit measurement:*** When a Packet Power Power Monitor is added to the busway end feed unit, the system can go beyond measuring only current and determine Volt-Amps (VA) and VA hours (VAh) for all monitored circuits.




Packet Power Wireless Three Phase Power Meter

## PLUG IN AND START MONITORING.....

From the moment the monitors are energized, all data is immediately available using the EMX Energy Portal or interfaces with most Building Management or DCIM Systems.



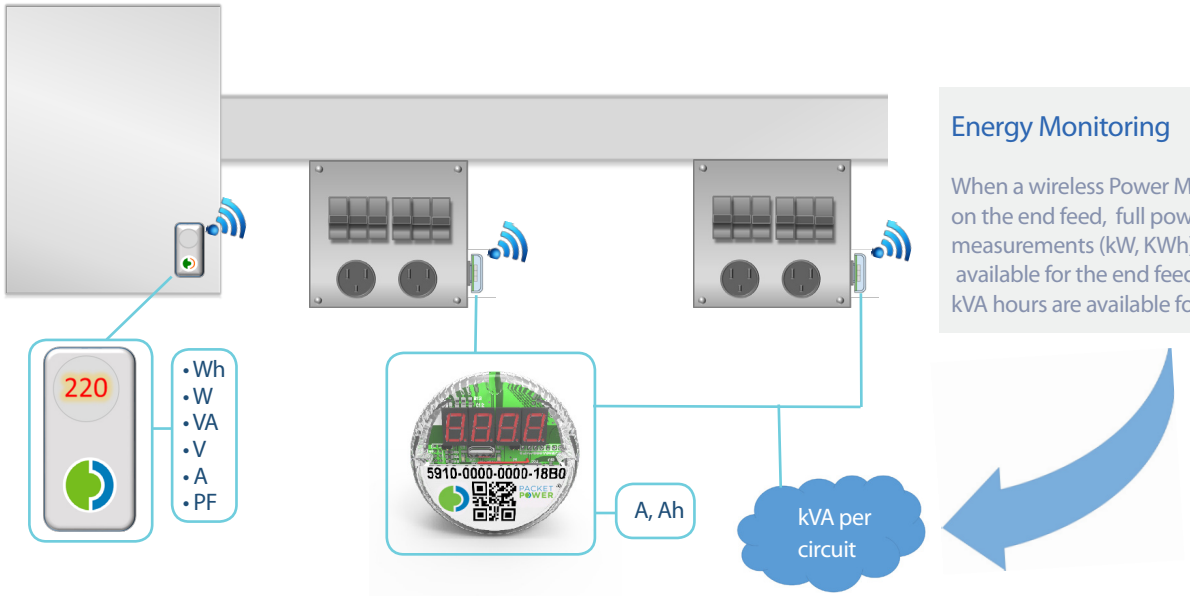
## FEATURES

- Monitors current and amp-hours on up to six channels
- Available with solid core or split core CTs
- Local LED display
- Measures internal temperature
- Simple plug and play installation
- Improves reliability and availability compared to wired monitors.
- Highly secure wireless network isolates monitoring devices from primary data networks
- Self configuring network that minimizes IT resource requirements
- Monitor VA when used with a Packet Power wireless end feed power monitor
- Optional EMX Energy Portal makes information instantly available
- Easy integration with BMS and DCIM systems
- Global certifications
- Built on wireless technology proven to work in critical facilities

WIRELESS SMART CURRENT MONITOR

## Busway Monitoring

*A simple and cost effective solution for new or retrofit busway.*




### Energy Monitoring

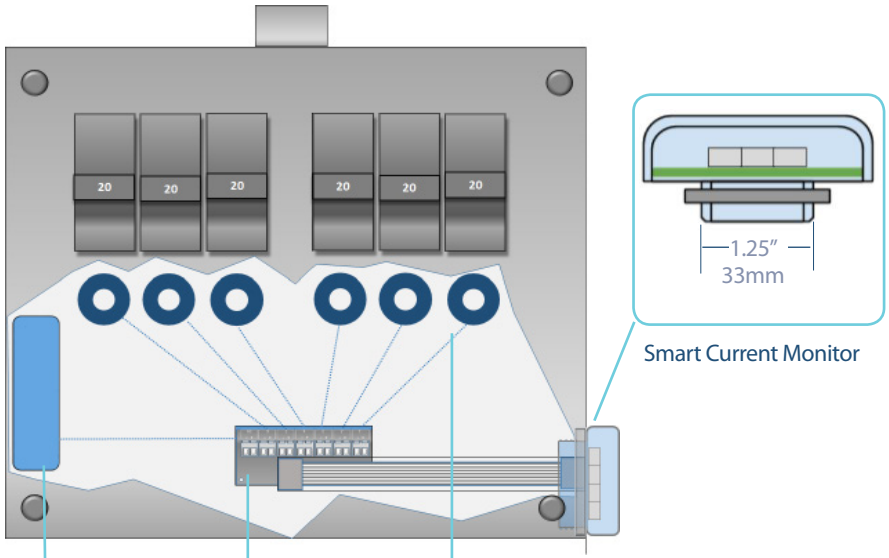
When a wireless Power Monitor is placed on the end feed, full power and energy measurements (kW, KWh) are available for the end feed and kVA and kVA hours are available for each circuit

Optional **Power Monitor** measures power for the entire bus run and provides full energy information including power factor.

**Smart Current Monitor** is placed on each tap-off and monitors up to six circuits

## Easy To Install

*The Smart Current Monitor installs in minutes via a 1.0" NPT (33mm) hole in the tap-off box.*




**5 VDC power supply** is small, reliable and rated to 70°C

**CT terminal block** can be placed in any convenient location

**Current Transducers**: split core or solid core type

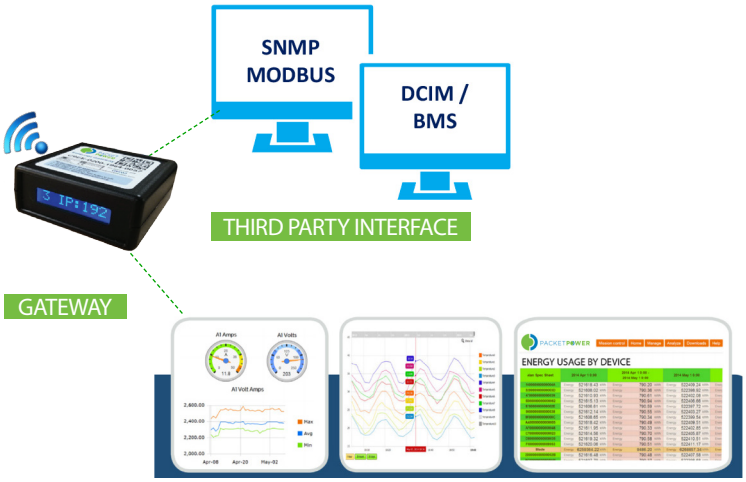
### Installation Advantages

- Fits any enclosure
- No communications wiring
- Standard mounting hole
- CTs plug in quickly
- Low installation time
- Split or solid core CTs
- No DIP switches
- Wireless updates and changes

# Packet Power Monitoring Architecture

*Self Configuring Mesh Network*

MONITORING NODES




Packet Power makes it easy to manage your monitoring network. The Ethernet Gateway automatically detects any new monitoring devices, seamlessly adding them to the network. The monitors communicate via a mesh network routing traffic through any nearby monitors to find the optimal path to a Gateway. This robust and resilient technology results in a wireless network that is as reliable as a wired network but much easier to install, manage and secure. Gateways, which can each support up to 300 monitoring units, can be added to expand capacity and provide redundancy.

## Packet Power Wireless Monitor Family

Environmental Monitor: 6 -12 temperature probes , differential pressure and humidity

Smart Cables : Three phase power cables with embedded wireless monitoring from 16 to 63A

Smart Cables : Single phase power cables with embedded wireless monitoring from 10 to 63A

Multi-Circuit Panel: Monitors up to 9 three phase circuits

## End Feed Power Monitoring Module Specifications

- Accommodates external split core and solid core CTs
- Monitored Parameters: Voltage (V), Current (A), Volt Amps (VA), Power (W), Energy (Wh), Power Factor
- 100-415 VAC input (50/60 Hz) Single phase or three phase
- High accuracy (+/-1.0%)
- Internal antenna
- Core dimensions: 2.8" x 1.6" x 1.4"
- Overall Dimensions: 4.2" x 1.6" x 1.8
- Global certifications radio operating frequencies
- 30 through 2000 A capacity

WIRELESS SMART CURRENT MONITOR

# Technical Specifications

WIRELESS SMART CURRENT MONITOR

## MEASUREMENT

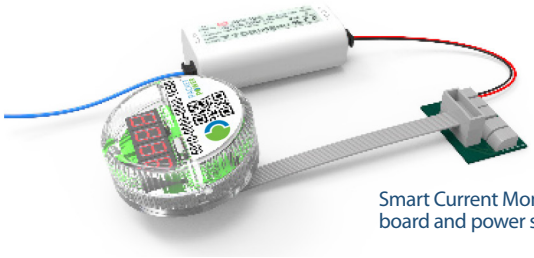
| | |
|---|---|
| Current Channels | One to six |
| Measurement | Current, amp hours, internal temperature |
| Accuracy | ±1.0% accuracy |
| Current Transducers | 30-2000 A; solid core and split core versions |

## COMMUNICATIONS

| | |
|---|---|
| Operating Frequency | 860 to 930MHz and 2.4 GHz (frequencies specific to region) |
| Wireless Network Protocol | Frequency hopping self-configuring load-balancing mesh |
| Data Output | SNMP and Modbus TCP/IP |
| Firmware Updates | Wireless |
| Typical Transmission Range | 10 to 30 meters indoors between any two devices in mesh network |
| Antenna | Fully enclosed, fixed configuration |
| Monitoring Unit to Gateway Radio | Up to 300 monitoring units per gateway with unlimited Gateways per site |
| Multi-site Support | Yes |
| Encryption | 128-bit |
| System Status | Local LED |

## OPERATING ENVIRONMENT / MECHANICAL / POWER SUPPLY

| | |
|---|---|
| Operating Temperature | 0° to +70° C (+32 °C to +104 °F) |
| Operating Humidity | 10% to 90% non-condensing |
| Environmental Rating | Indoor Use |
| Module Size | Display Bezel: 2.0" (51 mm) diameter x 0.75" (20 mm) H Stem:1.25" (32 mm) diameter x 0.5" (13 mm) H |
| Power Supply Size | 3.03" (77 mm) L x 1.57" (40 mm) W x 1.14" (29 mm) H |
| External AC Power Supply | 100- 264 VAC input voltage, 50-60Hz; 5 VDC output |
| Monitor Input Power | 5 VDC @ <25 mA |
| Hot Swappable | Yes |



Smart Current Monitor shown with CT interface board and power supply.

## *Advanced Current Monitoring Applications*

Busway

Multi-Tenant

Branch Circuits

Switchgear

PACKETPOWER

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