## PACKETPOWER

## BGP198 Model Components

and Monitoring Made to Measure Specifications


## BRANCH CIRCUIT MONITOR COMPONENTS

Packet Power's BGP198 wireless branch circuit monitor arrives fully configured to each customer's needs and includes the following components.


## MODELS



## MONITORING MADE TO MEASURE

"Monitoring made to measure" means we fully configure each power monitor to meet your exact needs.
Here's what we need to know to cut your installation time in half.

- Voltage input service type (source power)
- Number of branch circuits (CTs) you want to monitor
- Branch circuit CT amperage
- If you want to monitor panel infeed circuits, what's the infeed circuit amperage
- Need for inline fuses on the voltage lead
- Length of the cables to the CT interconnect board
- Placement of CT wire harnesses in relation to your panel (CT harness type)

Use the Configuration worksheet on page 5 to capture your needs.
Contact sales@packetpower.com with questions or if you need a different option than outlined in the rest of this document.

## TECHNICAL SPECIFICATIONS

| Measurements | Branch circuits: A, Ah (W, Wh using an arbitrary voltage) Infeed circuits: V, A, VA, W, Wh, Power Factor, Hz Accuracy: $+1.0 \%$ |
| :---: | :---: |
| Fusing | Optional inline 5A fuses |
| Current Range | Branch circuits: 15A, 30A, 50A Infeed circuits: 100A to 400A |
| Frequency | $50 / 60 \mathrm{~Hz}$ |
| Monitor Dimensions | $265 \times 185 \times 96 \mathrm{~mm}(10.4 \times 7.3 \times 3.8 \mathrm{in})$ |
| Monitor Weight | 5.1 kg (11.2 lb) |
| Mounting | On wall or on device; mounting tabs included |
| Wire Exits | Two 35 mm (1.375 in) diameter openings on device bottom |
| Voltage Lead Wire | 18 AWG 600V colored wire; 3 m or 7m length |
| CT Interconnect Board Cable (from BGP198 to CT lead) | Shielded 300V cord; 1-5m length |
| Infeed Circuit CT Leads | 24 AWG 600V twisted pair; quick disconnect; 0.5-5m length |
| Operating Environment | $0^{\circ}$ to $75^{\circ} \mathrm{C}$ ( $32^{\circ}$ to $167^{\circ} \mathrm{F}$ ); $5 \%$ to $95 \%$ non-condensing |
| Water and Dust Resistance | NEMA 1/IP20 (indoor use) |
| Power Usage | 5-7W |
| Wireless Network Protocol | Frequency hopping self-configuring load-balancing mesh; Operating frequency 860 to 930 MHz and 2.4 GHz (frequencies vary by region) |
| Wired Network Protocols | HTTPS to Packet Power EMX running locally or as cloud service; SNMP V1/V2c/V3; Modbus TCP/IP; Ethernet/IP; MTConnect; BACnet/IP; MQTT |
| Firmware Updates | Wireless |
| Typical Transmission Range | 10 to 30 meters indoors between any two devices in mesh network |
| Antenna | Fully enclosed, fixed configuration |
| Monitor to Gateway Ratio | Up to 3 BGP198-6P192C devices per Ethernet Gateway with unlimited Gateways per site |
| Local Display | Volts, Amps and communication status |
| Made in USA | Yes |
| Product Warranty | 1 year |
| Certifications | UL 508A and CE, FCC and other country communications standards |

## CT LEAD WIRE OPTIONS

The BGP198 supports flexible, preconfigured CT wire harnesses as well as loose CT leads at a variety of lengths. Infeed CT leads do not connect to the CT Interconnect Board.

$\qquad$

| Model |
| :---: |
| Max Current－only CTs／CT Interconnect Cables <br> ㅁ 96 ／ 4 Cables <br> ㅁ 192 ／ 8 Cables |


| Voltage Source |  |
| :---: | :---: |
| $\square$ | 100－220V AC 1 Phase（2－wire LN＋E） |
| $\square$ | $230-240 \mathrm{~V}$ AC 1 Phase（ 2 －wire LL＋E） |
| $\square$ | 277 V AC 1 Phase（ 2 －wire LN＋E） |
| $\square$ | 200－240V AC Delta（3－wire LLN＋E） |
| $\square$ | 240／120V AC Split（3－wire LLN＋E） |
| $\square$ | 208／120V AC Wye（4－wire＋E） |
| $\square$ | 415／240V AC Wye（4－wire＋E） |
| $\square$ | 480／277V AC Wye（4－wire＋E） |


| Voltage Lead |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Voltage Lead Length： | －3m | －7m | ロ＿＿＿m | $\square$ None |
| Fusing： | $\square$－${ }^{\text {used }}$ |  | $\square$ Not Fused |  |



| Branch Circuit Split Core CTs |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Qty | Rated／Max Amperage | Inside Diameter | External Dimensions <br> $(\mathrm{H} \times \mathrm{W} \times \mathrm{D})$ | CT Tail |  |
|  | $\square 15 \mathrm{~A} / 18 \mathrm{~A}$ | 10 mm | $39 \times 23 \times 26 \mathrm{~mm}$ | 100 mm |  |
|  | $\square 30 \mathrm{~A} / 36 \mathrm{~A}$ |  |  |  |  |
|  | $\square 50 \mathrm{~A} / 63 \mathrm{~A}$ |  |  |  |  |


| Infeed Circuit Split Core CTs |  |  | Not Applicable |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Qty | Rated／Max Amperage | Inside Diameter | External Dimensions （ $\mathrm{H} \times \mathrm{W} \times \mathrm{D}$ ） | CT Tail | CT Lead Length （CT Interconnect Board to circuit） |
|  | 100A／120A | － 16 mm | $44 \times 31 \times 33 \mathrm{~mm}$ | 500 mm | － 0.5 meter1 meter |
|  |  | － 24 mm | $65 \times 46 \times 35 \mathrm{~mm}$ |  |  |
|  | 200A／240A | － 24 mm | $65 \times 46 \times 35 \mathrm{~mm}$ |  | 1.5 meters |
|  |  | － 36 mm | $85 \times 37 \times 42 \mathrm{~mm}$ |  |  |
|  | 400A／480A | － 36 mm | $85 \times 37 \times 42 \mathrm{~mm}$ |  | 3 meters5 meters |
|  |  | － $50 \times 50 \mathrm{~mm}$ | $125 \times 120 \times 30 \mathrm{~mm}$ |  |  |
|  | ロ＿＿A | $\ldots \mathrm{mm}$ |  |  | ロ＿meters |

## BGP198 BRANCH CIRCUIT MONITOR MODEL CONFIGURATION INFORMATION

 Please contact sales@packetpower.com with questions or if you have any additional customization needs not shown here.

| Example: | Four 42-pole, 120-240V single phase power service, one 3 m fused lead, $6 \times 200 \mathrm{~A} 24 \mathrm{MM}$ CT infeed circuits with 3 M leads, $168 \times 50 \mathrm{~A} \mathrm{CTs}$,8 top don odd/even harnesses and 3 M Interconnect Cables |
| :---: | :---: |
| Product Number: | BGP1986P192C-S0-3F-C168-E136-A1A1A1A1A1A1A1A1-33333333 |



| CT Interconnect Cable 1 | CT Interconnect Cable 2 | CT <br> Interconnect Cable 3 | CT Interconnect Cable 4 | CT Interconnect Cable 5 | CT Interconnect Cable 6 | CT Interconnect Cable 7 | CT Interconnect Cable 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $1=1 \mathrm{M}$ | $00=$ None | $00=$ None | $00=$ None | $00=$ None | $00=$ None | $00=$ None | $00=$ None |
| $B=1.5 \mathrm{M}$ | $1=1 \mathrm{M}$ | $1=1 \mathrm{M}$ | $1=1 \mathrm{M}$ | $1=1 \mathrm{M}$ | $1=1 \mathrm{M}$ | $1=1 \mathrm{M}$ | $1=1 \mathrm{M}$ |
| $2=2 M$ | $B=1.5 \mathrm{M}$ | $B=1.5 \mathrm{M}$ | $B=1.5 \mathrm{M}$ | $B=1.5 \mathrm{M}$ | $B=1.5 \mathrm{M}$ | $B=1.5 \mathrm{M}$ | $B=1.5 \mathrm{M}$ |
| $3=3 \mathrm{M}$ | $2=2 M$ | $2=2 M$ | $2=2 M$ | $2=2 M$ | $2=2 M$ | $2=2 M$ | $2=2 M$ |
| $5=5 \mathrm{M}$ | $3=3 \mathrm{M}$ | $3=3 \mathrm{M}$ | $3=3 \mathrm{M}$ | $3=3 \mathrm{M}$ | $3=3 \mathrm{M}$ | $3=3 \mathrm{M}$ | $3=3 \mathrm{M}$ |
| $\mathrm{C}=$ | $5=5 \mathrm{M}$ | $5=5 \mathrm{M}$ | $5=5 \mathrm{M}$ | $5=5 \mathrm{M}$ | $5=5 \mathrm{M}$ | $5=5 \mathrm{M}$ | $5=5 \mathrm{M}$ |
|  | $C=$ <br> Custom | $C=$ <br> Custom | $C=$ <br> Custom | $C=$ <br> Custom | $C=$ <br> Custom | $C=$ <br> Custom | $C=$ <br> Custom |

