

WAVESTAR® BCMS BRANCH CIRCUIT Monitoring System





IEC DISTRIBUTION PANEL

PDI - Patented Branch Circuit Monitoring

The PDI Branch Circuit Monitoring System (BCMS) for IEC Distribution Panels is designed with 6 & 9 CT strips that mirror the modularity of IEC distribution panels. By leveraging this modularity, our IEC BCMS Kits can be deployed on virtually any panelboard.

Solid Core CT Strip Kits

- Designed for any manufacturer's panelboard or breakers
- Kit = CT Strips, Motherboard, Power Supply, Mounting Plate, Cables
- Field deployable
- Easy to install and connect to BMI via Modbus[™] or Optional SNMP
- Kits Available in 12, 18, 24, 30, 36, 42, 48, 54, 60, 66 & 72 CTs





BCMS Software Options	BCMS	BCMS Plus
Current per Branch Circuit	•	•
Minimum/Maximum Current	•	•
Alarm Setting	•	•
Summary Alarm via Modbus [™]	•	•
Real Power - KW per Branch Circuit		•
Apparent Power - Kva per Branch Circuit		•
Reactive Power - Kvar per Branch Circuit		•
Kilowatt Hours per Branch Circuit		•
Power Factor per Branch Circuit		•
Leading/Lagging Power Factor Sign per Branch Circuit		•
Frequency per Panelboard		•
Over/Under Voltage per Panelboard		•
Voltage L-L, L-N for 3 Phases, Panelboard		•

echnical Specifications

ccuracy
Branch Circuit kW/kWh Accuracy: 1% of Reading
olid Core Current Transformers
6 or 9 CT Strips Suitable for IEC Panels
63A Rating Suitable for 16A, 32A and 63A MCBs
26.7 mm ² Maximum Cable Entry
ommunications
RS485 using Modbus [™] Protocol
Optional SNMP
imensions
6 Core CT Strip: 143.764 mm x 38.1 mm
9 Core CT Strip: 179.832 mm x 38.1 mm
Data Acquisition Board: 218.281 mm x 111.920 mm
perating Temperatures
Operating Temperature Range -40 $^\circ$ to 65 $^\circ C$ (-40 $^\circ$ to 150 $^\circ F)$
Storage Temperature Range -40° to $85^\circ C$ (-40° to $185^\circ F)$
pdate rate: 0.8 Seconds
oltage Range
Input Voltage Transformer Options (Two Options):
Option 1: 90 VAC to 125 VAC at 50/60Hz
Option 2: 200 VAC to 300VAC at 50/60Hz
Measured Voltage LN: 90VAC to 300VAC
requency Range: 47Hz to 61Hz
ower Consumption: 50 mA at 120VAC
ower Supply Input: 200-250VAC @ < 0.5A
fax # of circuits monitored: 72 or two panel boards of 36
E listed to the safety standard EN 60950-1
E listed to the EMC standards EN 61000-6-2 & EN 61000-6-4



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