

Battery Condition Monitor Option

The Enatel BCM consists of peripheral circuit boards that can be added to an Enatel system utilizing the SM22 or SM32 supervisory module to monitor the performance of the installed stand-by battery system.

The monitor is designed to be connected to a number of different battery configurations with minimal changes to its configuration.

The BCM includes the capability to log battery parameters during discharge and on a periodic time basis.

- Compatible with SM22 or SM32 supervisory modules.
- 26 voltage inputs.
- 8 pairs of current inputs.
- 4 temperature inputs.
- Discharge logging.
- Periodic logging.
- Ease of installation.
- Compact design.



Specifications

Voltage Resolution:	0.01V
Voltage Accuracy:	± 0.02V
Current Resolution:	1A
Current Accuracy:	± 2A
Temperature:	± 2°C (standard sensor, upgraded sensor available for ± 1°C)
Standard Configurations:	<ul style="list-style-type: none">- 4 strings, 4 voltage measurements per string (requires 1 PCB)- 8 strings, 2 voltage measurements per string (requires 1 PCB)- 1 string, 24 voltage measurements per string (requires 1 PCB)- 1 string, 12 voltage measurements per string (requires 1 PCB)- 8 string, 4 voltage measurements per string (requires 2 PCBs)
Communications:	Enatel serial bus interface
Alarms:	Controlled via SM22 or SM32 <ul style="list-style-type: none">- Voltage symmetry fault (based on deviation from average string block measurement)- Battery current imbalance (based on deviation from average string current across all strings in system)- Battery temperature high- Battery temperature low- Battery string open (detects string voltage deviation from system DC bus to conclude battery is disconnected from system)
Data Logging:	Utilization of supervisory module memory:
SM22:	15,500 data points
SM32:	196,000 data points
	Actual number of discharge events stored depends on frequency of discharges, logging interval and parameters measured.
Dimensions, W, H, D:	80mm , 145mm, 27mm
Weight:	100g
Part Numbers:	
Battery Condition Monitor Option:	ASM-ABM-24

Sample Battery Discharge Graphs:

