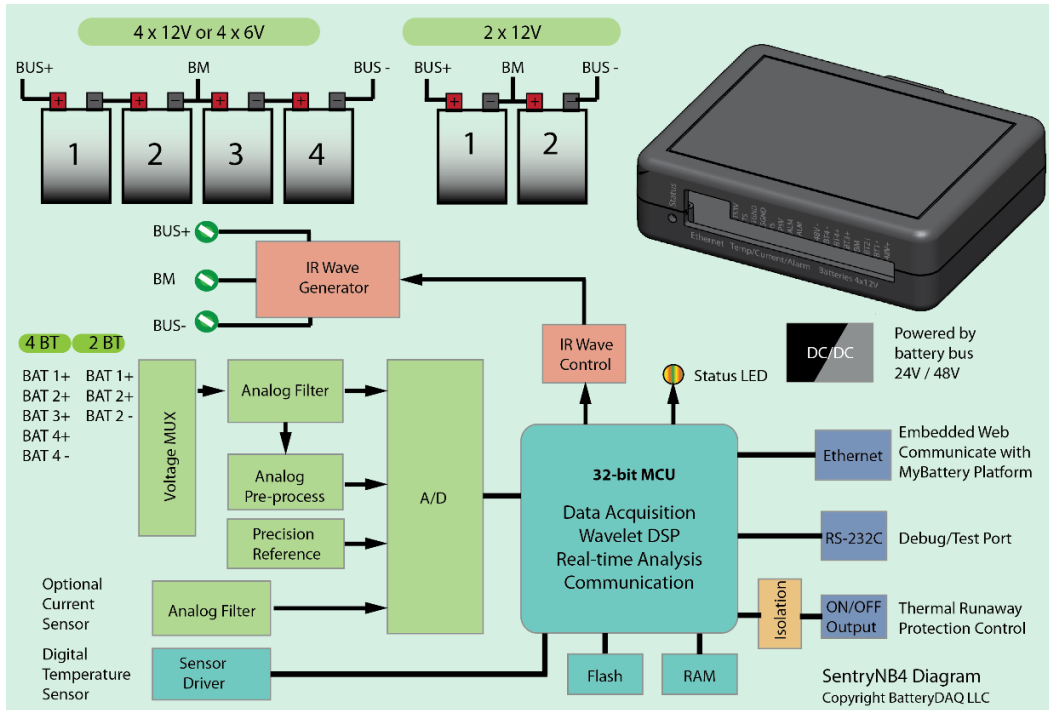


**SentryNB4** monitor provides powerful functions for online state-of-health battery management for large scale remote telecom cabinets or stations. The compact design makes it suitable for any size indoor/outdoor 24V or 48V system cabinets with 12V or 6V battery blocks. It combines superior data quality and ease of installation for effective remote battery management in accordance with the most recent IEEE standards:

**IEEE Std. 1188 - 2005: Recommended Practice for Maintenance, Testing, and Replacement of Valve-Regulated Lead- Acid (VRLA) Batteries for Stationary Applications ([IEEE Link](#))**



**Common Applications**

Telecommunication Cabinets

Cable/Broadband Cabinets

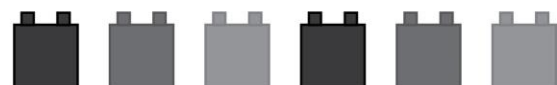
Traffic Light Control Cabinets

HPMS - Highway Performance Monitoring Systems

Solar Powered Radio Stations/Cell Sites

**Main Features**

- Online IR (Internal Resistance) measurement to detect battery failure.
- Thermal runaway detection and protection control output to interface with most chargers/rectifiers.
- On-board data analysis for battery health evaluation.
- Industrial grade, compact design for indoor/outdoor applications.
- Embedded web pages for remote monitoring.
- Compatible with MyBattery Platform™ for large scale applications.
- Integration support for 3<sup>rd</sup> party network battery management systems.



**Specifications**

<b>Power Supply</b>	
<b>Power Input</b>	Internal DC/DC converter, 18-60V input; Maximum Consumption: 3W
<b>Current/Temperature Measurement</b>	
<b>Current Sensor</b> (Optional)	Supports LEM HASS current sensor with internal +5V power supply (Default range +/- 300A, window size 20mmx10mm)
<b>Accuracy</b>	0.1% + sensor accuracy
<b>Temperature Sensing</b>	1 temperature sensor, intelligent thermal runaway detection algorithm
<b>Temperature Range</b>	Measurement range: -40 to 65°C Operating range: -40°C to 65°C (-40°F to 149°F)
<b>Accuracy</b>	1 °C
<b>Voltage Measurement</b>	
<b>Battery Configuration</b>	48V system, 4 x 12V batteries 24V system, 2 x 12V or 4x6V batteries <i>[Special order available for 12V and 36V systems.]</i>
<b>Bus Voltage</b>	Range: 18 – 60V; Accuracy: 0.1%
<b>Input Range to Each Channel</b>	+/- 18V for 12V batteries
<b>Accuracy</b>	0.1%
<b>Internal Resistance</b>	
<b>Range and Resolution</b>	0 to 30mΩ, 0.01mΩ resolution
<b>Wire mode</b>	1-wire mode Internal Resistance for each battery block
<b>Communication</b>	
<b>Ethernet</b>	Onboard Ethernet DTU Embedded web pages for real-time data and configuration/calibration Compatible with Battery Analyzer software and MyBattery Platform™
<b>Indication and Output</b>	
<b>LED indication</b>	Dual-color LEDs for status and alarm
<b>Control Output</b>	Normal Close, 0.1A capacity to control charger/rectifier ON/OFF for thermal runaway protection
<b>Dimensions</b>	
<b>Unit Dimensions</b>	115mm(H) x 90mm(D) x 32mm(W), 4.50 x 3.50x 1.25 in.
<b>Mounting</b>	DIN-35 rail (a versatile clip included)

**\*Specifications subject to change without notice**

