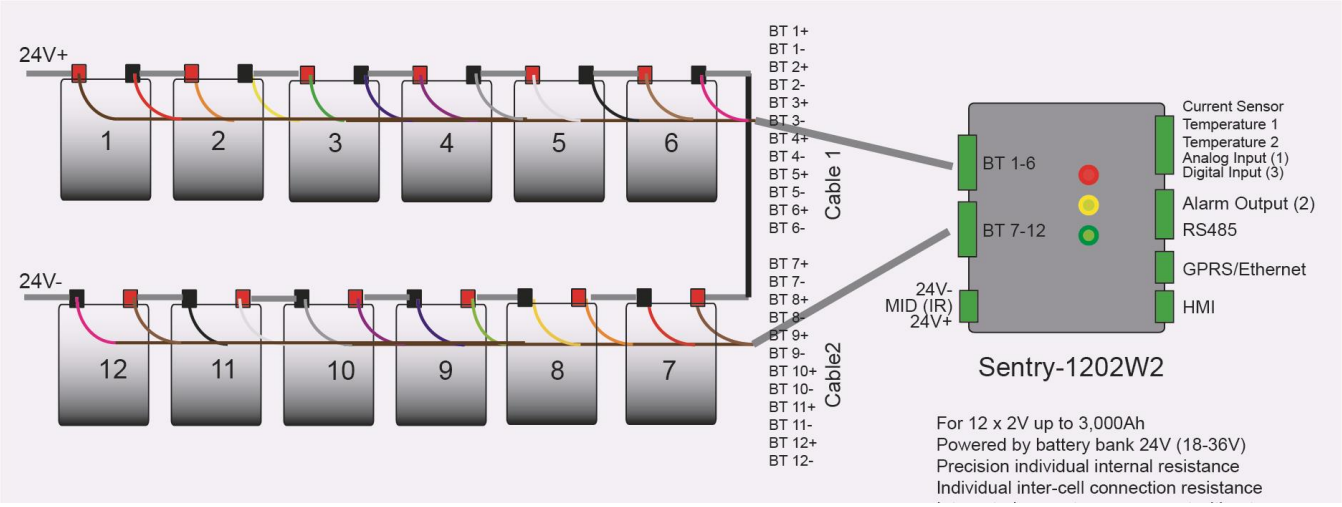
BatteryDAQ™
Monitoring Solutions

Sentry-1202W2

Sentry-1202W2 is a powerful battery health monitoring system for Telecom 24V system with 2V cells up to 3,000Ah capacity. This compact battery unit combines superior data quality and flexible installation to address most cell site applications for effective remote battery management according to the IEEE updated standards:

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

IEEE Std. 1491-2012: IEEE Guide for Selection and Use of Battery Monitoring Equipment in Stationary Applications (IEEE Link)



MADE IN THE USA WITH PRIDE

UL CERTIFIED

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Main Features

- Super precise IR (Internal Resistance) measurement for each cell
- Discriminate inter-cell connection resistance measurement
- Ambient and pilot temperature monitoring. Thermal runaway detection and prevention
- Accurate discharge remaining time estimation
- Industry standard Modbus/RTU communication for high reliability and quick integration
- Compact design allows for easy installation on the top or side of the battery bank or equipment rack.
- No mechanical relays, resulting high reliability for telecom applications
- Industrial grade design for extended temperature range for indoor and outdoor installations
- Plug and play HMI panel (optional)
- Full support to networking battery management system
- Compatible with MyBattery Platform™ for web based remote monitoring.

Specifications

Power Supply	
Power Input	Powered by battery bus, 18-30V Maximum Consumption: 10W Average Consumption: 3W
Isolation	500VDC@1min to battery string
Current/Temperature Measurement	
Current Sensor (Optional)	Support LEM HAS current sensor with internal +/-12V power supply (Default range +/- 400A, window size 20mmx15mm)
Accuracy	0.1% + sensor accuracy
Temperature Sensors	1 ambient temperature sensor 1 pilot temperature sensor
Range	Measurement range: -40 to 65°C
Accuracy	1 °C
Voltage Measurement	
Battery	12 x2V cell, up to 3,000Ah
Bus Voltage	Range: 18 – 30V; Accuracy: 0.1%
Battery Voltage	+/- 3V for 2V batteries
Accuracy	0.1%
Input Wiring	2-wire differential input for each battery
Internal Resistance	
Range and Resolution	0 to 3mΩ, 0.001 mΩ resolution
2-wire mode	Internal Resistance and discriminate Connection Resistance.
Communication	
Serial Port	Isolated RS-232C and RS-485 ports
Modbus	MODBUS RTU, 9600-8-1-None
Ethernet	10/100Mbps BaseT with RJ-45 Onboard Ethernet DTU to MyBattery Platform™ Embedded web page for real-time data
Wireless Option	GSM/GPRS (PTCRB, AT&T, T-Mobile, Jasper, and Rogers Network Certified)
Indication and Alarm	
LED indication	Dual-color LEDs for status Orange LED for service alarm Red LED for urgent alarm
Alarm Outputs	Service Alarm (Normal Close, 0.1A) Urgent Alarm (Normal Close, 0.1A)
Mechanicals	
Dimensions	165W * 31H *165L (mm) (Mounting bracket excluded)
Mounting	DIN Rail, magnetic cup or customized bracket

***Specifications subject to change without notice**

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