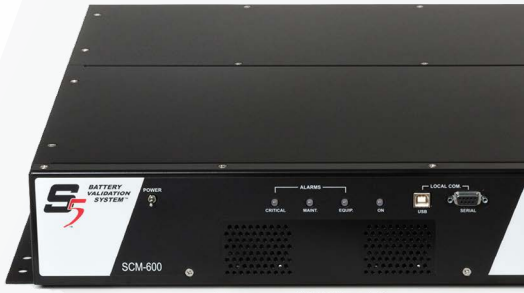
BTECH®
Battery Monitoring Solutions

PREDICTIVE. PROACTIVE. PREVENTIVE.™

THE BENCHMARK FOR MODERN BATTERY MANAGEMENT SYSTEMS

The S5 Battery Management System is designed to monitor Lead Acid and NiCad battery systems. Capable of supporting up to 480 individual cells and eight strings per system, the S5 allows you to make prompt evaluations with advanced notification of potential failures, collect data from most battery types, including cells with high Amp-Hour ratings (4000+).

This system monitors unit voltages, unit impedance, pilot temperatures, Delta T temperatures, and functions as a data logger when batteries are in discharge. Adding optional smoke detection and battery compartment heat detectors will enable compliance with local fire codes. Electrolyte Level Monitoring can be added to comply with NERC utility standards, and the S5 system can easily gather data about your battery system and trigger alarms that keep you in the know.



- Designed to Work with Lead Acid and NiCad Battery Systems - Including 16 Volt VRLA
- High-End Filtering & Sensitivity
- Quick Disconnect Safety Fuses Simplify Replacement
- Advanced Notifications

Key System Features:

- Monitors system/string/unit voltages, float, charge, and discharge current
- Provides real-time thermal runaway management
- Records ambient and pilot cell temperatures
- Monitors elevated unit voltages and excessive float charging
- Optional programmable relay contact system that turns off the battery charger or trips the battery breaker (dual shunt trips required)
- Measure up to 480 individual units and 8 string systems
- Compatible with most battery types including 1 to 16-volt VRLA/NiCad/VLA
- Individual string current monitoring for multiple systems
- Complete isolation from the battery string

Facility Management System Integration:

- MODBUS over TCP/IP for simple third-party software integration
- SNMP compliant
- 6 programmable output relays
- 4 programmable input relays

Alarm and Data Acquisition Ports:

- Integrated network card
- Local: RS-232 and USB
- Alarms: sends alerts through SMS or email by using our BVM Software or BMS integration

Measurement Capability:

- Total Voltage: 0-600V
- Unit Voltage: 1-16V
- Unit Impedance: 100Ω to 20mΩ

Temperature:

- Unit and Ambient: -32ºF to 160ºF
- Default Differential: 15ºF above ambient

Discharge Events:

- Date & Time
- System Voltage
- Load Current
- Power Removed
- Unit Voltage Decay

Software:

- BVM 4.x Windows® Based Software Package
- BVM Observer 4.x designed for Windows 10® or Above

Measurement Accuracy & Repeatability:

- SCM-600 Controller: NEMA 1 Metal Rack/Wall/Shelf Mount
- VM24i Module: Voltage/ Temperature/Current Flame Retardant Poly
- 1 Current Transducer Per String 1% Sensitivity Accuracy

Power Requirements:

- 110-250 VAC 50/60 Hz (UPS Protected Power) (Max 100 Watts) or 24-145 VDC

LED Indicators – VM24i Module:

- Green = Power On

LED Indicators – SCM 600 Controller:

- Green = Summary No Alarms
- Yellow = Summary Maintenance Alarms
- Red = Summary Critical Alarms
- Red Equipment = Hardware Failure

SYSTEM CONFIGURATION

S5H	1	02	240	C0	WM	A0
type	strings	point voltage	monitoring	current options	mounting options	power supply
S5H (60-600)	1-8 1	2 02	2-480 240		Wall Mounted, WM	A0
		1.2 01		clamp, per system: T	Rack Mounted, RM	A1
		4 04		clamp, per string: 0	Shelf Mounted. WM	D1
		6 06				D2
		8 08				
		12 12				

QUESTIONS OR INQUIRIES?

Log into the Online Battery Validation Manager portal or contact us at **sales@btechinc.com** or **973-983-1120** to speak with one of our battery monitoring innovation experts.

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BTECH is a leading global provider of sustainable US-based manufacturing and battery monitoring solutions that ensures batteries perform as intended for safety, reliability, and lifespan. Through battery innovation expertise, proactive management services, and leading analytic and predictive technologies, BTECH helps companies deploying reserve power or battery systems eliminate the risk of failure in mission-critical buildings and applications.

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