

The Ultimate Battery Monitoring System

Application

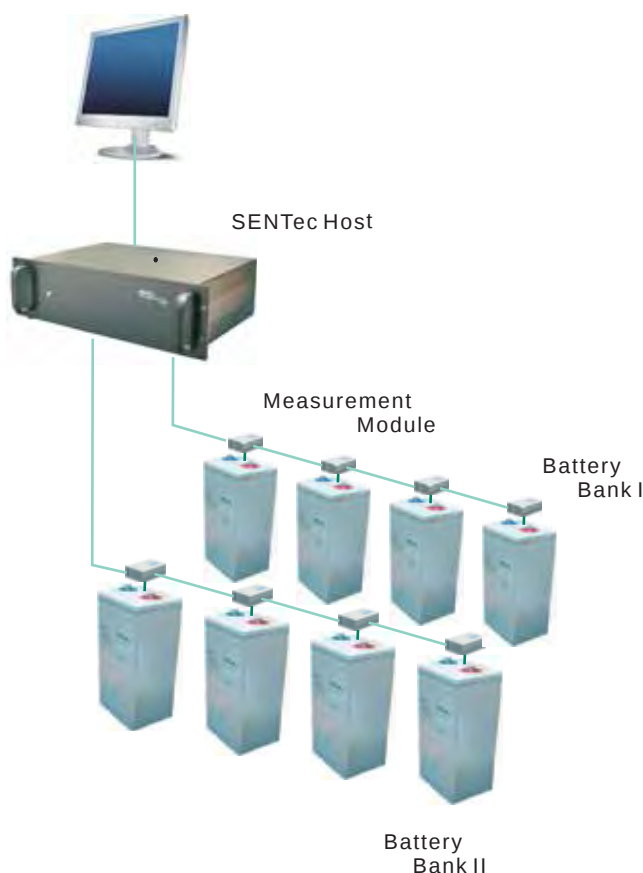
- ❖ Telecommunication equipment
- ❖ Medical equipment
- ❖ Electronic switching system
- ❖ Automotive electronics
- ❖ UPS system



SENTec Host i5000

Nowadays, most mission critical systems such as UPS and telecom equipment are supported by battery. However, without advanced battery monitoring, the true battery performance is always an unknown.

SENTec's battery monitoring system is designed for monitoring battery at block level by automatically scanning each battery block status, battery current and environment temperature. By analysis of data or alarm reporting, operation engineer can find out failure batteries before serious problems happened.



Features

- ❖ Monitoring total and single battery voltage, battery string current and environment temperature, humidity.
- ❖ Each battery block voltage is sampled in simultaneously & continuously base.
- ❖ Immediate warning of deterioration and imminent failure of batteries
- ❖ clarifying an individual battery which is beyond standard.
- ❖ Real time monitoring when discharge, recharge and float charge conditions.
- ❖ DAISY BUS communication architecture
- ❖ Unified system design & construction
- ❖ Keep history record in database that you can analysis and evaluate battery performance
- ❖ Window-based software for real-time monitoring, analysis and reporting
- ❖ Provide battery discharging management through monitoring software
- ❖ Report of failure conditions such as batter over-charge, low voltage, discharge start / end, charging.

Safeguard your Battery System

The best choice for Battery Monitoring!!

Specifications

SENTec Host & Software

Form factor	19 inch 3U rack mountable
Color	black
No of monitoring module	1 to 254 per channel (i5000) 1 to 40 per channel (i3000)
No of channels per host	2 channels (i5000 & i3000)
RS232:	Between computer & host
Power consumption	510 watts for i5000 220 watts for i3000
Power supply	220Vac 50Hz
Software platform	Windows XP Intel base

Interfacing

Software computer to host	RS-232
Inter module connection	DAISY BUS
External communication	SNMP support RS-232 support

SENTec Measurement Module

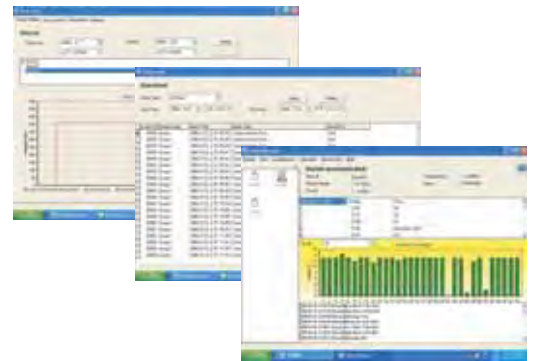
Size (mm)	120 x 80 x 40
Measuring point	1 per module
DAISY BUS	ring connection
Indicators	battery alarms (upper/lower)

Measuring Accuracy

Battery cell voltage	0 to 16V +/-0.01V
Battery string voltage	0 to 600V +/-0.01V
Battery current	+/-0.5A
Operating temperature	0°C to 35°C

Alarm

High / low battery string voltage
High / low battery block
High / low battery discharge current
High / low battery discharge current
Battery discharge start / end
Battery string open
Communications error



Advantages

- ❖ Precision measurement of battery performance continuously
- ❖ Never draw power from the battery system which under monitoring
- ❖ Flexible to monitoring all type of battery ranging from 2V, 6V to 12V
- ❖ Adopting any no of battery to monitoring from 1 to 254 (or 1 to 40) battery blocks in each channel
- ❖ Simple communications thanks to DAISY BUS architecture
- ❖ Lowest cable installation cost
- ❖ Robust & reliable system performance due to its simple system philosophy
- ❖ Easy & unlimited system expansion

