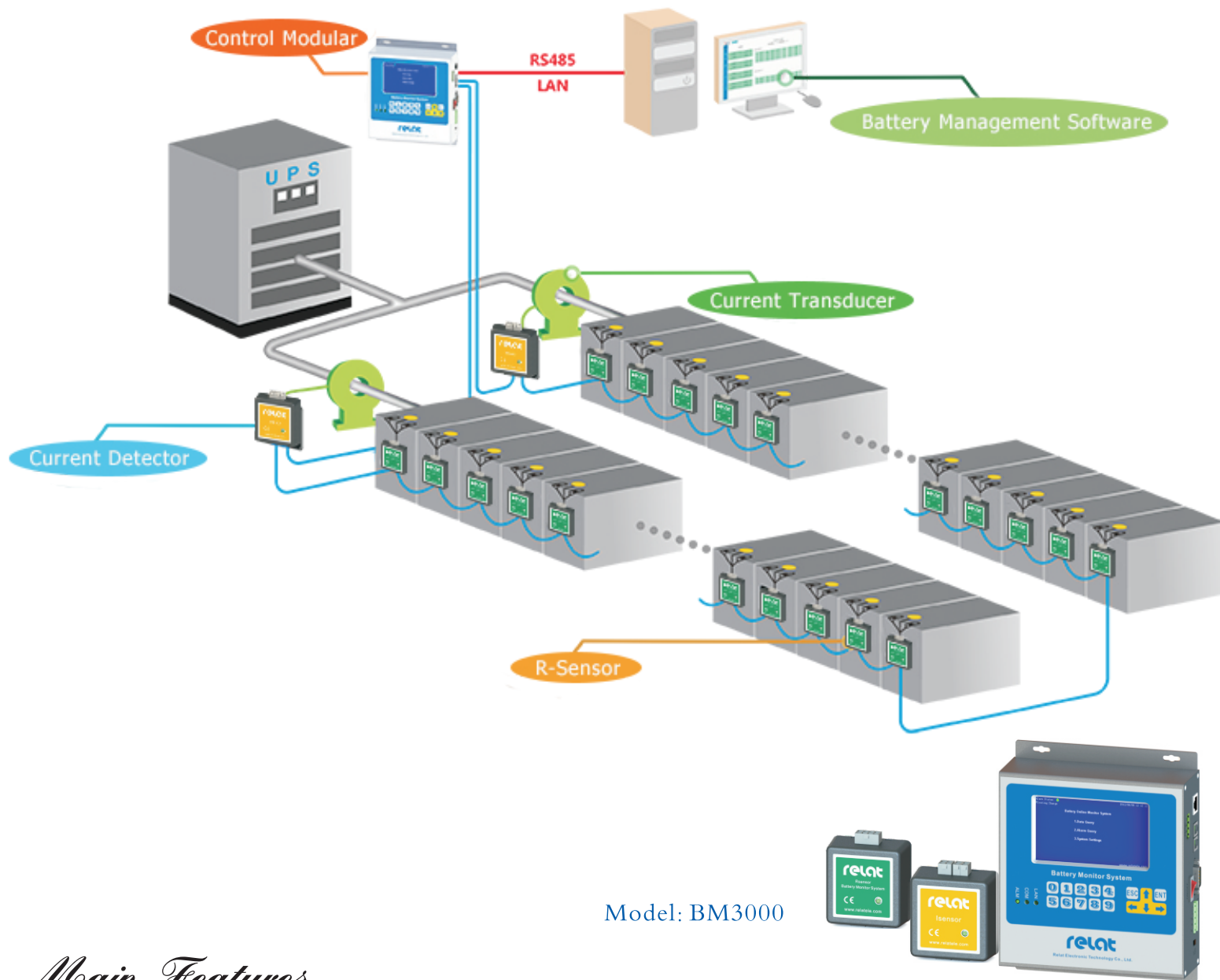




7 x 24 Hours online Battery Monitoring System



Main Features

- Automatic Measure and record all individual blocks internal resistance, voltage and temperature
- Automatic Measure and record bank current , bank voltage & Ambient Temperature
- Generate alarm and warning via PC Screen, Control Module, Dry Contact & Email Notification
- Local monitoring in battery room on Control Module LCD screen
- Remote monitoring via Ethernet LAN & RS485
- MODBUS TCP/IP Protocol for third party integration
- Battery Sensor will go into a standby sleeping mode saving battery power

Battery Type	VLA, VRLA, Vented, Lithium & Others	
Battery Capacity Range	Up to 3000 Ah	
Total number of strings/bank	From 1 to 6 Strings/Bank	
Block Voltage	2 VDC, 3.7 VDC & Others	6 VDC, 12 VDC & Others
Voltage Measurement Range	from 1.5 Volt to 5 Volt	from 5 Volt to 12 Volt
Internal Resistance Measurement Range	from 0.01 mΩ to 40 mΩ	from 0.1 mΩ to 80 mΩ
Temperature Measurement Range	-10 – 70 ° C (14 – 158 ° F)	
Voltage Measurement Accuracy	± 0.2 %	
Internal Resistance Measurement Accuracy	± 2 %	
Temperature Measurement Accuracy	± 1 ° C	
Bank Current Measurement Range	from 0 Amp to 3000 Amp	
Bank Current Measurement Accuracy	± 1 %	
Bank Voltage Measurement Accuracy	± 0.2 %	
Voltage Measure Interval	10 seconds	
Internal Resistance Measure Interval	Optional from Daily to Monthly	
Temperature Measure Interval	10 seconds	
Bank Current Measure Interval	3 seconds	
Bank Voltage Measure Interval	10 seconds	
Battery Sensor Power Consumption	50 mAh	26 mAh
Battery Sensor Sleeping Mode	3 mAh	1 mAh
Current Sensor Power Consumption	0.5 Watt	
Control Module Power Consumption	5 Watt	
Baud Rate	9,600 bps	
Connections	Ethernet, RS-232, RS-485, Volts free Contacts	
Operating Environment	Temperature: 0 – 50 ° C (32 – 122 ° F)	Relative Humidity: Under 95 %
Power Requirements	110-225 VAC 50/60 Hz (UPS Protected Power) or 24 VDC	
Battery Sensor Dimensions	58.6 x 61 x 28 mm (2.3 x 2.4 x 1.1 in)	
Current Sensor Dimensions	58.6 x 61 x 28 mm (2.3 x 2.4 x 1.1 in)	
Control Module Dimensions	158 x 195.5 x 50 mm (6.2 x 7.7 x 1.97 in)	
Battery Sensor Weight	51 g	
Current Sensor Weight	56 g	
Control Module Weight	800 g	
Sensor Enclosure	Flame Retardant Poly	
Control Module Enclosure	Metal Wall Mount	
Sensor LED Indicators	Alternative Green: Performing Measurement	Alternative Red: Alarms
Controller LED Indicators	Alarm-Green : No Alarms COM-Green : No data transfer LAN-Green: LAN Connection	Alarm Alternative Red: Alarms COM- Alternative Green: Data Transfer LAN-Alternative Green: Data Transfer
Communication Protocol	Modbus TCP/IP	
Certification	Approved by EMC, CE, ISO9001:2008	
Electrical Isolation	Up to 3000V	
Control Module Memory Size	32 MB	
Control Module Storage Frequency	Every minute saved for 24 Hours History Data, Every Day saved for Yearly History Data	
Control Module Measure Interval	10 seconds	
PC Software Storage Frequency	Fastest than 1 second	
PC Software Measure Interval	10 minutes during floating, 10 seconds during charge & discharge	
Operating System for PC Software	Microsoft Windows XP, Windows 7, or Windows Server 2003/2008	
PC Software Loading	PC remote monitoring and manage more than 15 sets of BM3000 BMS, allow multiple level user login	
PC software Feature	Dual redundant storage in a second memory card or an external hard drive. Generated Detailed Discharge Report	



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