

Wireless H3G-TA Battery Monitoring System

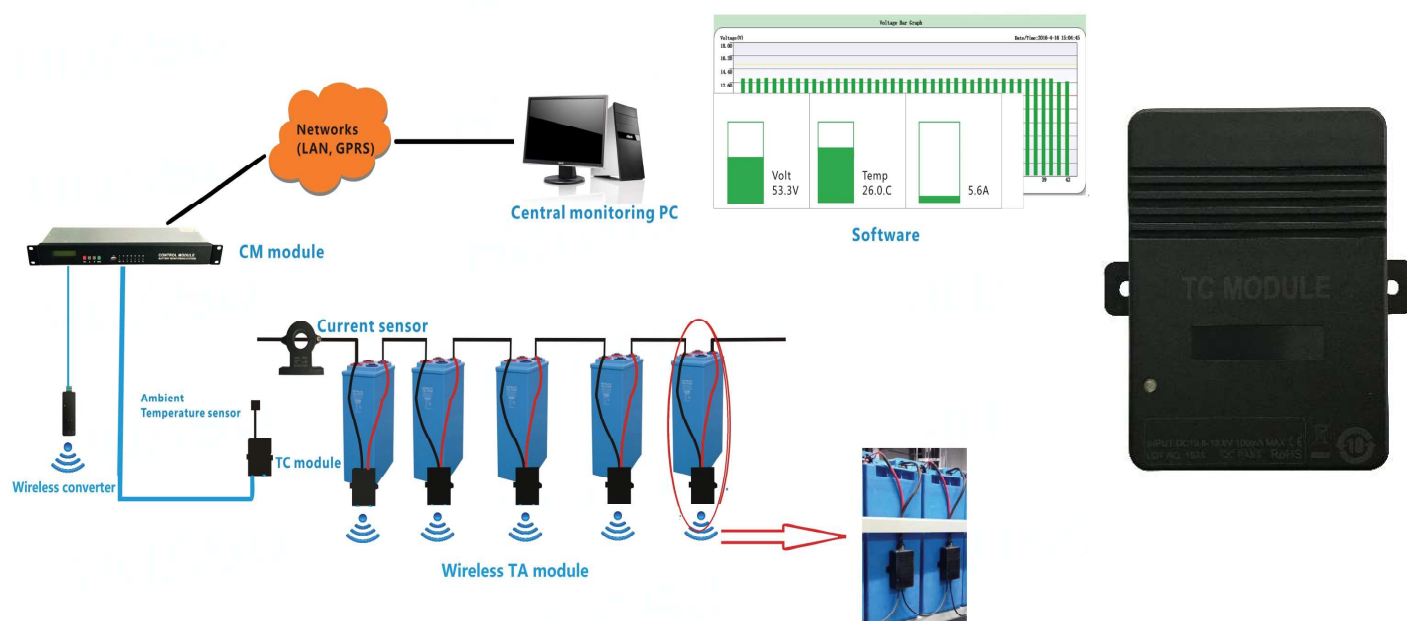
Internal Resistance, Voltage and Temperature Measurement



OVERVIEW

Wireless H3G-TA Battery monitoring system is based on existing mature battery monitoring system and reduces half of the wiring job. It combines HUASU advanced technology with patented. The system comprised wireless TA module, TC module, wireless converter and CM module.

- 24/7 online monitoring
- One wireless module monitor one battery, including internal resistance, voltage and temperature according ANSI/TIA-942.
- Software is available to retrieve data from wireless TA module
- Serial port with optical isolation, meets Modbus specification
- Interfaces with most UPS controllers



FEATURES

- 2.4G RF communication with more secure and convenient
- Test battery internal resistance at regular intervals and analyze the internal resistance variation trend, it can alarm disabled battery in advance.
- It approached battery internal temperature and find thermal runaway battery.
- It can equalize battery voltage manually or automatically.
- It records battery voltage, battery string voltage, discharge current and discharge capacity automatically when the batteries discharge; it also automatically identifies discharge process and adjusts collection frequency to the fastest.
- It can set or modify operation parameter and alarm threshold in local or remote; this operation has authorization password protect.
- CM module has RS485, Ethernet Port, meet MODBUS/RTU, MODBUS/TCP, SNMP protocol and dry contact; it is easy to access third party monitoring system.

SPECIFICATIONS

Environmental

Operating temperature: -5°C~50°C, 5%~90%RH
Storage temperature: -10°C~70°C, 5%~90%RH
Atmospheric pressure: 80~110kPa

Monitoring Ability

Max. 300 batteries per string
1 pc CM module Max manages 6 strings.
1 pc CM module Max manages 960 batteries

Usage

2V, 6V or 12V batteries, capacity less than 2000AH

Power Requirements

Wireless TA module: battery-powered, less than 40mA (2V) or 20mA (6V, 12V) quiescent
TC module: 8~13VDC, 2W
Converter: 8~13VDC, 0.3W
CM module: 85~264VAC, 100V~370VDC, 15W

Protection

Measuring and power circuit with 2 stage protection.
Wireless TA module has reverse polarity protection and optoelectronic isolation.

Measurement Range & Accuracy

Item	Range	Accuracy
String V	20~800V	±0.5%
Battery V	2V、6V、12V	±0.1%
Battery R	50~65535uΩ	±2%, 1uΩ
Pole Temp.	-5°C~+99.9°C	±1°C
String I	0~1000A	±1%
Ambient Temp.	-5°C~+99.9°C	±1°C

Installation

Mount on battery or DIN rail

Communications Interface

Wireless TA module: serial port meets Modbus.
TC module: serial port meets Modbus
CM module: RS485, Ethernet Port, meets Modbus/
RTU, Modbus/TCP and SNMP

Insulation: 2000 VAC

Durability

MTBF: 100,000 hours

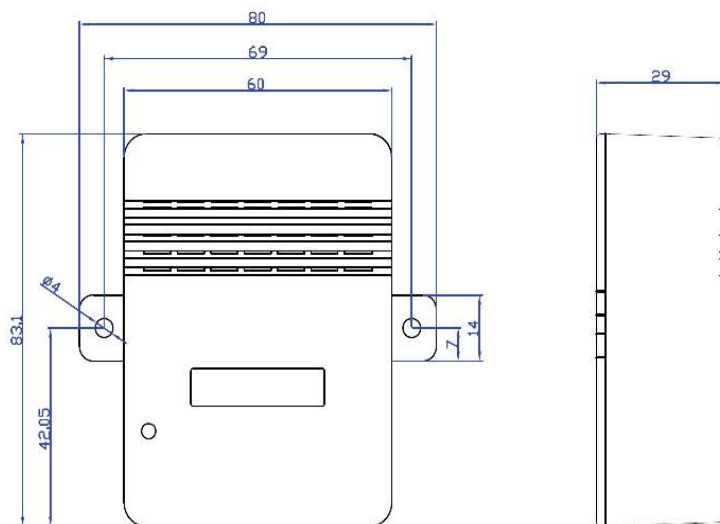
Weight

Wireless TA module: 80g;
TC module: 75g,
CM module 1.8Kg,
Wireless converter: 50g

Standards

CE
ROHS

DIMENSIONS



(Unit: mm)

OPTIONS

1.MM-D0: monitoring module with 5.6 inch touch screen, it can connect CM directly and query real time alarm and data.
2.BMDM-S01: PC version "BattOnline" software use for central monitoring small quantity battery, it needn't database.
3.BMDM-ND01: network version "BattOnline" software use for central monitoring big quantity, it need SQL database,

APPLICATIONS

- UPS
- Telecommunications
- Battery supplied applications
- Utilities
- Fire & Safety systems
- Remote monitoring