

H3G-TV Battery Monitoring System

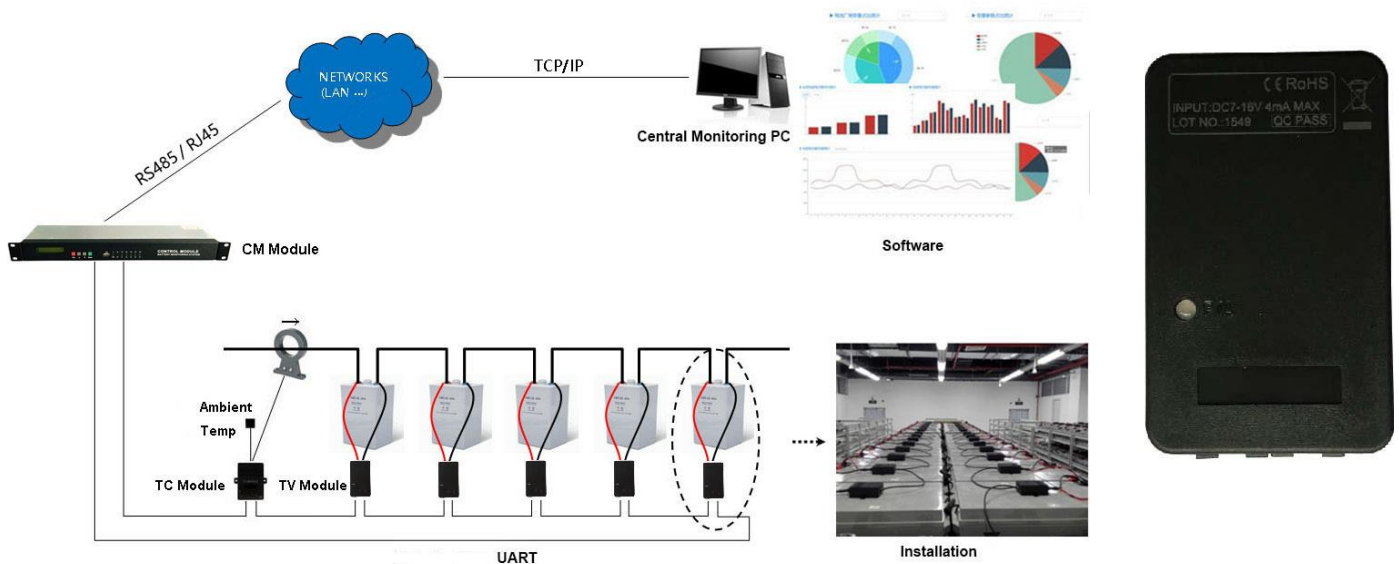
Voltage and Temperature Measurements



OVERVIEW

The H3G-TV battery monitoring system is designed for single battery monitoring. H3G-TV advanced patented technology provides the most comprehensive stationary battery health analysis in the industry. One H3G-TV system comprises the TV, TC and CM modules.

- 24/7 online monitoring
- Monitors voltage and temperature of a single battery
- PC software available to retrieve data from TV module
- Serial port with optical isolation, meets Modbus specification, easily accessed via UPS controller
- User-friendly installation



FEATURES

- Full battery temperature and voltage monitoring for comprehensive battery state of health analysis
- String current and ambient temperature monitoring (requires TC module)
- Auto-analysis of battery monitoring data, to identify batteries that need replacement or maintenance (requires CM module)
- Panel lights indicate when alarms are raised, which can also be read via the serial bus
- Store historical data, including up to: 24 battery voltage readings; 720 string voltage readings; 15 temperature readings; 100 alarms and 50 events:
- All operating parameters can be set via serial bus
- PC software is available for management of multiple strings, real-time alarms and historical data

SPECIFICATIONS

Environmental

Operating temperature: $-10^{\circ}\text{C}\sim 50^{\circ}\text{C}$

Relative humidity: $5\%\sim 95\%$

Atmospheric pressure: $80\sim 110\text{kPa}$

Usage

1.2V, 2V, 6V or 12V batteries, capacity is less than 3000AH

Power Requirements

TV module: battery-powered, less than 12mA(1.2V&2V) or 4mA(12V) quiescent

TC module: $8\sim 13\text{VDC}$, 2W

CM module: $85\sim 264\text{VAC}$, 50/60Hz, 15W
 $110\text{V}\sim 370\text{VDC}$ (standard),
 $\text{DC}48\text{V}(36\sim 72\text{VDC})$, 15W

Protection

Battery circuit is fused

TV module with reverse polarity protection and optical isolation

Measurement Range & Accuracy

String voltage: $20\sim 800\text{V}$; $\pm 0.5\%$; 0.1V

Cell voltage: 1.2V, 2V, 6V, 12V; $\pm 0.1\%$; 0.001V

Battery temperature: $-5^{\circ}\text{C}\sim 99.9^{\circ}\text{C}$, $\pm 1^{\circ}\text{C}$, 0.1 $^{\circ}\text{C}$

String current: $0\sim 1000\text{A}$, $\pm 1\%$ (Full scale), 0.1A

Installation

Mount on battery or DIN rail

Communications Interfaces

TV module: Serial port, meets Modbus protocol, supports up to 130 devices on each bus

TC module: Serial port meets Modbus protocol

CM module: RS485, Ethernet port, meets Modbus/ RTU, Modbus/TCP and SNMP protocol

Insulation: 2000VAC

Weight

TV module: 50g

TC module: 260g

CM module: 1800g

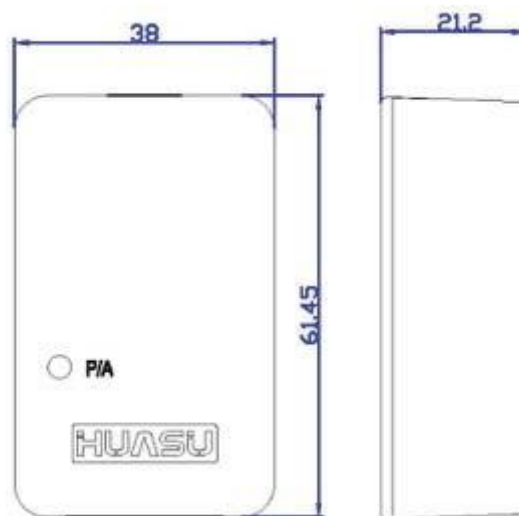
Standards:

EMC: EN61326-1:2013 EN61326-2-1:2013

Safety: EN61010-1:2010 UL61010-1:2013

UL, CE, RoHS certification

DIMENSIONS



OPTIONS

1. Converter
Use for applications without the CM module and connect directly to a controller
2. Software
PC software available to retrieve and display data from CM module

APPLICATIONS

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

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