# VRT sensor - TA Module

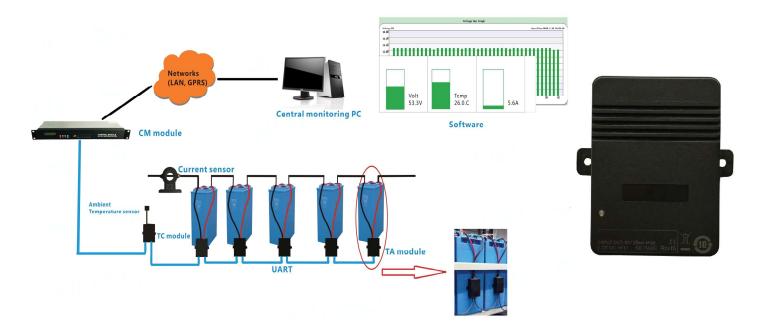




### **OVERVIEW**

The TA module is designed to integrate into an existing monitoring system. It monitors voltage, internal resistance and temperature for a single battery, uploading the data via its optically isolated serial port. The module can be battery or rail-mounted.

- 24/7 online monitoring
- Monitors internal resistance, voltage and temperature of a single battery
- Serial port with optical isolation, meets Modbus specification, easily accessed via an existing monitoring system
- User-friendly installation
- The TA module has a UART port and requires a converter to convert to RS485 or RS232 to integrate with an existing monitoring system. The optional TC module can monitor string current and ambient temperature.



## **FEATURES**

- Full resistance, battery temperature and voltage monitoring for comprehensive battery state of health analysis
- String current and ambient temperature monitoring (requires TC module)
- All operating parameters can be set via the serial bus
- Meets Modbus specification with a RS485 or RS232 port (requires converter)
- Debug software is available

### **SPECIFICATIONS**

Environmental

Operating temperature: -5°C~50°C, 5%~90%RH

-10°C~70°C, 5%~90%RH Storage temperature:

Usage

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

**Power Requirements** 

TA module: battery-powered less than 60mA(2V) or

25mA(12V) quiescent

Protection

Battery circuit is fused

TA module with reverse polarity protection and optical

isolation

Measurement Range & Accuracy

Cell voltage: 1.5~2.5V, ±(0.1%+1mV)

9~15V, ±(0.1%+10mV)

Internal resistance:  $100-65535u\Omega$ 5°C~50°C, ±1.5°C Battery temperature:

Installation

Mount on battery or DIN rail

Communications Interfaces

UART port, meets Modbus TA module:

2000VAC Insulation:

Weight

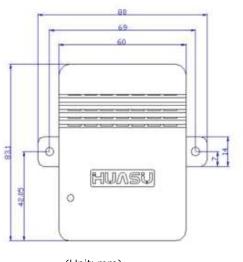
TA module: 115g

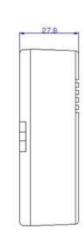
Standards

UL61010-1

CF RoHs

DIMENSIONS





(Unit: mm)

### **OPTIONS**

1. TC module

Monitors string current and ambient temperature

2. Power supply

Output: 12VDC

(for converter and TC module)

### **APPLICATIONS**

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



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