VM13

Wireless Voltage Monitor

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VM13 is a high-precision, wide-range intelligent DC voltage measuring instrument that supports multi-channel wireless network connections.

Multi-point Voltage Wireless Collection, Integrated Display

Support Voltage Change Curve, High Sampling Rate

Supports Up to 48 Channels Simultaneous Wireless Network Connections

DC 0~1000V Measurement, Accuracy Reaches 0.5%FS

Features

1. Wide range measurement, automatic switching range selection.
2. High-precision measurement, digital real-time display of voltage value.
3. Supports multi-channel wireless networking and can display the voltage values of multiple devices/circuits under test at the same time (up to 48 supported).
4. Supports voltage curve graph, allowing real-time viewing of multi-channel voltage change curves.
5. Standard probe and alligator clips, can be selected according to usage scenarios.
6. The body is compact and lightweight, with a built-in magnetic device that can be adsorbed on the surface of iron objects.
7. Built-in rechargeable lithium battery with long battery life.

Functions

1. Voltage measurement: Supports 0~1000V DC voltage measurement with a measurement accuracy of 0.5% FS.

2. Multi-channel networking: Supports networking with terminals such as ST13, displays voltage change curves, and can connect up to 48 channels at the same time.

3. Quick connection terminal: It supports scanning the QR code on the fuselage or manually selecting and adding connection terminals in batches.

4. Abnormal alarm: Communication status indicator, battery power indicator, low battery alarm.

5. reminder and find: Supports reverse search of voltmeter, buzzer reminder and indicator light flashing.

Parameters

Measurement Range	DC 0~1000V	Battery	3000mAh/3.7V
Measurement Accuracy	0.5%FS	Charging Interface	Type C
Resolution	10mV	Working Temperature	0~45°C
Display Method	6-digit digital tube	Storage Temperature	-10~60°C
Communication Method	BT, Wi-Fi	Dimensions	78×100×31mm

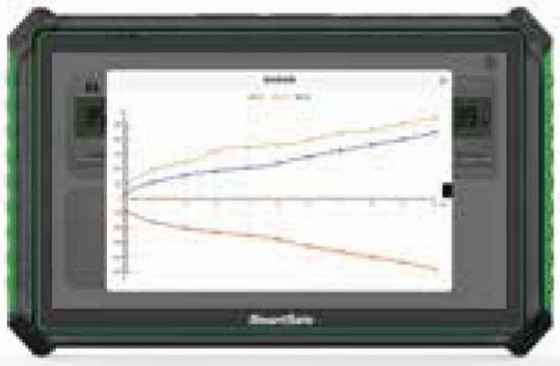
Voltage display, can be used independently

Wireless networking, supports up to 48 channels

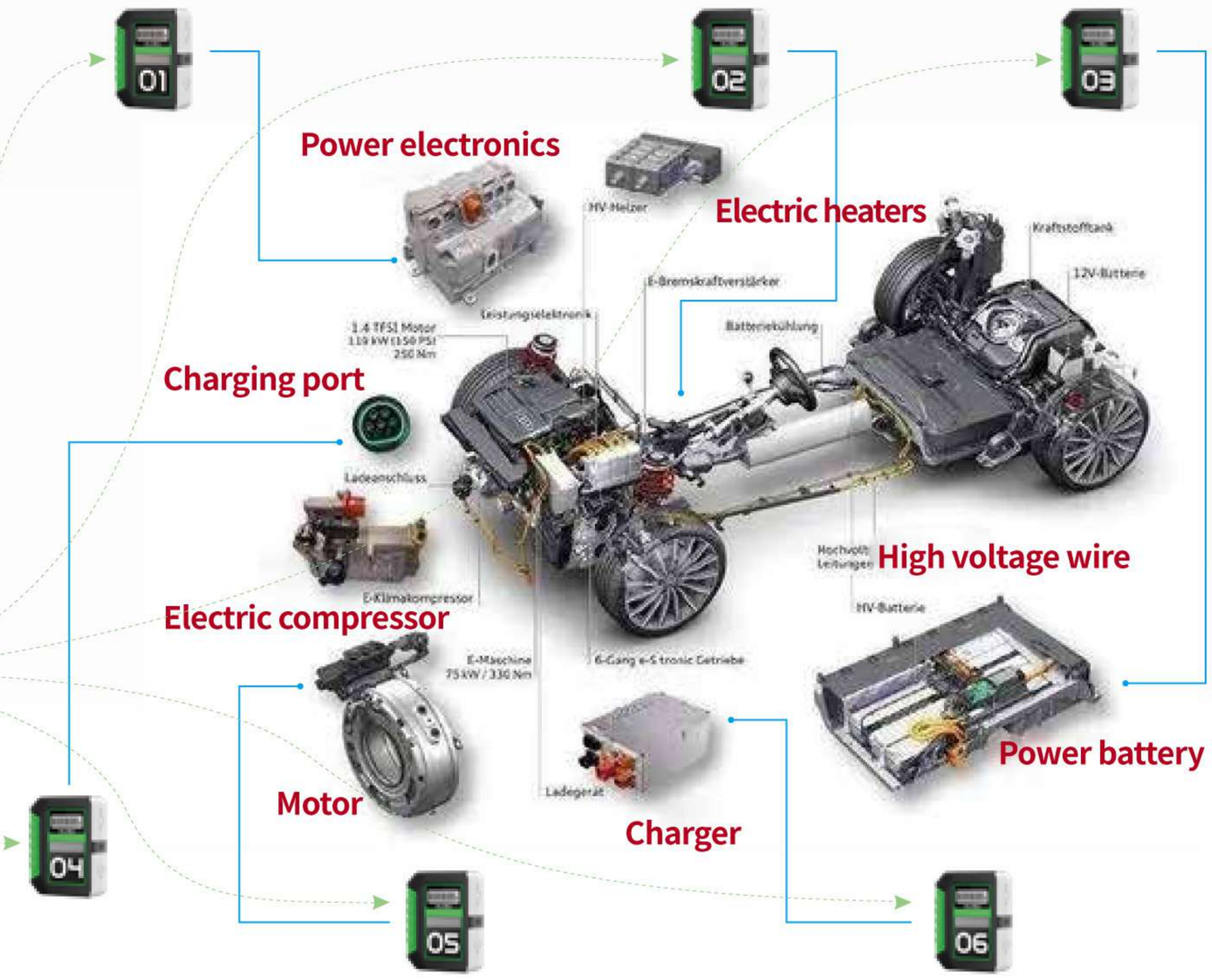
Comprehensive data,increase troubleshooting speed

Vehicle troubleshooting

- Precharging failed and high voltage cannot be supplied
- Quickly locate faults that cannot be powered on due to high voltage
- cannot charge by fast and slow charge.
- Motor temperature failure
- PDU control box failure
- ……



Summary of multi-channel voltage data



Application cases

Prima cannot start

Multiple startups are normal

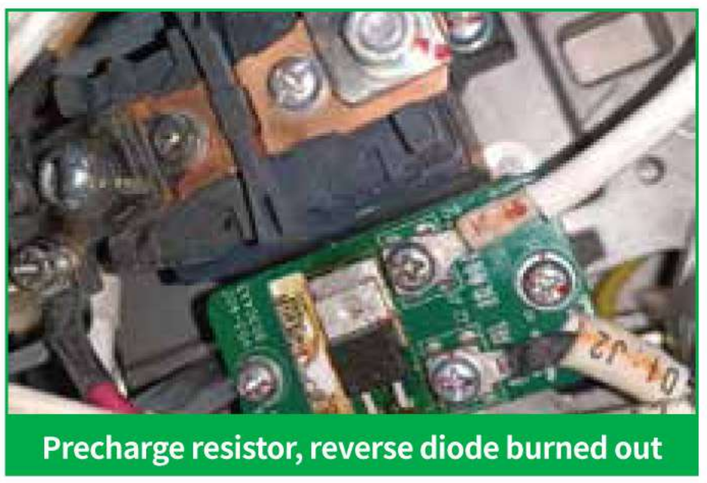
- There are total positive and total negative relay pull -in actions at startup
- No trouble code

PDU+MCU is difficult to judge

Many possible failures

- There is a problem with the key wake-up line or the wake-up relay
- There is a problem with the brake switch or connector wire
- There is a problem with the VCU acquisition connector or circuit
- There is a problem with the total positive and total negative relays, there is no bus voltage
- There is bus voltage and pre-charging failed
- There is a problem with the motor control bus collection
- Motor control board is defective

Quick detection of multiple points in the same test



Precharge resistor, reverse diode burned out

Simultaneous detection of multiple nodes

- For the total positive and negative output terminals of the battery, use a wireless voltmeter
- For the total positive and negative input terminals of the motor, use a wireless voltmeter
- DCDC positive and negative input terminals, use a wireless voltmeter
- Start the positive and negative terminals of the battery and use a wireless voltmeter
- The key wake-up line, use a wireless voltage meter