

HT3542/3545 DC Resistance Meter



OVERVIEW

HT3545/HT3542 Precision DC Resistance Meter is one of the highest-precision DC resistance testers in the industry.

HT3545 DC resistance Meter is 6 1/2 and 1,200,000 display, the minimum resolution can measure 0.01μΩ. Its basic accuracy of 0.01% is quite fit in the inverter motor coil inspection and other fields requiring high-resolution resistance measurement.

The HT3545 features high-speed test cable anomaly detection and extremely short measurement cycles, with a maximum sorting speed of 2.2 mS, ensuring high-speed and reliable sorting every time.

HT3542 is a compact version of HT3545; HT3545 is high configuration with a higher price.

FEATURES

- Thermoelectric compensation (OVC)
- Low power resistance measurement
- Test lead open circuit detection function, suitable for OS inspection of automatic production lines
- External control I/O port, RS-232 interface, Ethernet port, temperature test interface, analog input and output port, especially suitable for supporting automatic equipment to complete automatic test.
- D/A output
- Automatic test function

SPECIFICATION

Model	HT3545	HT3542
Display	3.5 inch TFT-LCD	
Measurement parameters	DC resistance	
Resolution	0.01μΩ	0.1μΩ
Test scope	[LP OFF] ranges from 10mΩ~1000MΩ, 12 ranges [LP ON] ranges from 1000mΩ~1000Ω, 4 ranges	10mΩ~10MΩ, 9 ranges
Measuring current	Less than DC 1A~1μA [LP ON] DC 1mA~5μA	DC 1A-0.5uA
Measuring accuracy	±0.01%rdg. ±0.001%f.s.	
Measuring speed	FAST(2.2ms), MED(50Hz:21ms, 60Hz:18ms), SLOW1(102ms), SLOW2(202ms)	
Measurement range	10mΩ/100mΩ/1000mΩ/10Ω/100Ω/1000Ω/10kΩ/ 100kΩ/1000kΩ/10MΩ/100MΩ/1000MΩ	20mΩ/200mΩ/2000mΩ/20Ω/200Ω/2000Ω/ 20kΩ/200kΩ/2000KΩ/10MΩ
Signal source	1A DC ;DC:Max:5.5V	
Temperature	Range:-10°C~99.9°C; Accuracy:± 0.50°C	Range:-10°C~60°C; Accuracy:1°C
Humidity range	23°C, less than 80RH	
Calibration	Short-circuit reset for all ranges	
Comparator	10-bin sorting, output signal HIGH/IN/LOW	
Data storage	Support with PC software and store in PC	
Trigger	Internal, manual, bus trigger	
Other	Test lead anomaly detection	
Interface	External IO, Anlog, LAN, RS-232	External IO, LAN, RS-232
Power supply	Voltage:100VAC ~ 256VAC; Frequency: 50Hz ~ 60Hz; Rated power:15VA	
Size & weight	325mm*215mm*96.5mm(L*W*H), 2kg	
Accessories	HT9348 temperature probe, PB36 connector, HT9344 test clip, HT9800 communication cable, power cord	

HT3542-12H/HT3542-24H Multi-channel Resistance Tester



OVERVIEW

The HT3542 multi-channel resistance tester is a new generation product from Hopetech Technology. Each model has two-wire and four-wire switchable modes. They realize maximum two-wire 48-channel resistance test and four-wire 24-channel resistance test. Based on the identical circuit design of the classic model HT3542 resistance meter, HT3542-12 and HT3542-24 is outstanding in anti-interference performance, make it very suitable for supporting automation equipment to complete automatic test.

FEATURES



HT3542 instrument comes standard with RS232/RS485/LAN and I/O interface, especially suitable for supporting automation equipment to complete automatic test.



HT3542 multi-channel resistance tester is able to work in a single-channel and multi-channel test; It has two-wire and four-wire switchable modes. Each two-wire single-card can test maximum 24-channel and four-wire single-card can test maximum 12-channel; two-wire dual-card can test maximum 48-channel, four-wire dual-card can test maximum 24-channel.

- Support multi-channel test, up to 24 test points via four terminals
- Rich interface for automation equipment
- Unique 300mA current test
- With automatic test function
- HT3542-12/24H can guarantee test accuracy
- Measure range of 10mΩ~10MΩ, 0.01% basic accuracy

APPLICATION

HT3542 single-channel tester is applied to small signal contacts, small fuses, leads, small magnetic parts, motor coils, transformer coils, solenoids, chokes, wiring harnesses, connectors, relay contacts, fuses, resistors, conductive coatings, conductive rubber.

HT3542 multi-channel resistance tester is special for measurement of three-phase motor coil; inspection of connectors and wiring harness; inspection of relay contacts; inspection of welded parts of battery terminals.

SPECIFICATION SELECTION TABLE

Model	Channel No.	Type	Test Accuracy	Resolution	Display
HT3545	Single	Standard	10mΩ~1000MΩ	0.01μΩ	6 1/2
HT3542		Economy	10mΩ~10MΩ	0.1μΩ	5 1/2
HT3542-12H	12-Channel	Functional			
HT3542-24H	24-Channel	Functional			