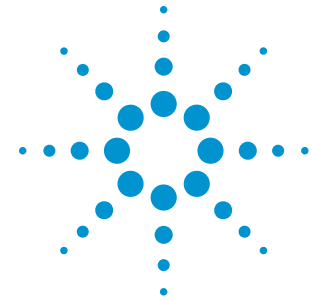


Agilent U1450A/U1460A Series Insulation Resistance Testers

Do MORE, test MORE with a single tool

Accomplish more in a day's work with a single insulation tester – test more applications, make various types of measurements and easily generate reports. Certified to IP 67 and tested to withstand a 3 meter (10-foot) drop, this robust tester is capable to withstand harsh conditions.



Features:

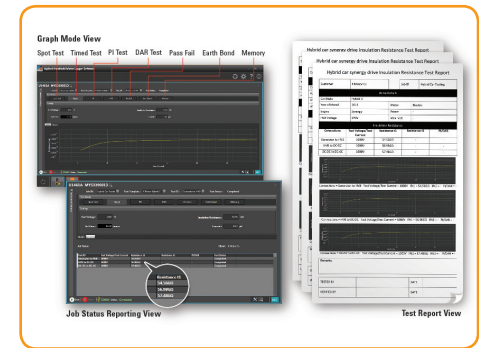
- Remote testing coupled with report generation capability
- 50 V/100 V/250 V/500 V/1000 V test voltages ⁽¹⁾
- Adjustable test voltages from 10 V up to 1.1 kV ⁽²⁾ **
- Up to 260 GΩ insulation resistance range
- Full-featured 4.5 digit OLED DMM (66,000 counts) ⁽³⁾ *
- Timed/PI/DAR test ⁽⁴⁾
- IP 67 certified – waterproof and dust proof ⁽⁵⁾
- Tested to withstand a 3 meter (10-ft) drop
- (-40 °C to +55 °C) operating temperature range **
- CAT III 1000 V/CAT IV 600 V safety ratings ⁽⁶⁾

* U1461A only

** U1453A and U1461A only



Generate test reports remotely via the U1117A IR-to-Bluetooth® adapter or U1173B IR-USB cable on a Windows PC or iOS/Android based smart devices.



Testing insulation resistance cables when commissioning electrical installations



Troubleshooting electrical motor accurately using the insulation resistance tester



Product Fact Sheet

Product specifications

	U1451A	U1452A	U1452AT	U1453A	U1461A
Display type	LCD	LCD	LCD	OLED	OLED
Insulation resistance tester features					
Insulation test voltage range	250 V, 500 V, 1000 V	50 V, 100 V, 250 V, 500 V, 1000 V	50 V, 100 V	50 V, 100 V, 250 V, 500 V, 1000 V	50 V, 100 V, 250 V, 500 V, 1000 V
Insulation resistance range	66 GΩ	260 GΩ	66 GΩ	260 GΩ	260 GΩ
Earth bond resistance measurement	0.01 Ω to 60 KΩ	0.01 Ω to 60 KΩ	0.01 Ω to 60 KΩ	0.001 Ω to 60 KΩ	0.001 Ω to 60 KΩ
Timed, PI, DAR	Timed only	√	√	√	√
Adjustable insulation test voltages	–	–	–	10 V to 1.1 kV	10 V to 1.1 kV
Live circuit test inhibit (30 V, 50 V, 75 V)	√	√	√	√	√
Calculate cable length by capacitance	√	√	√	√	√
Automatic discharge for capacitive circuits under test	√	√	√	√	√
Data management					
Remote testing and report generation ¹	√	√	√	√	√
Multimeter features					
DMM display resolution	6,600 counts	6,600 counts	6,600 counts	66,000 ² /6,600 counts	66,000 ² /6,600 counts
AC specification	Calibrated for Sine Wave	Calibrated for Sine Wave	Calibrated for Sine Wave	TrueRMS	TrueRMS
Measurements	AC/DC voltage, Auto AC/DC voltage identification ³ , Resistance, Continuity, Capacitance	AC/DC voltage, Auto AC/DC voltage identification ³ , Resistance, Continuity, Capacitance	AC/DC voltage, Auto AC/DC voltage identification ³ , Resistance, Continuity, Capacitance	AC/DC voltage, Auto AC/DC voltage identification ³ , Resistance, Continuity, Capacitance, Diode test	AC/DC voltage (V, mV), AC/DC current (μA, mA), Auto AC/DC voltage and current identification ³ , Resistance, Continuity, Capacitance, Diode test, Temperature
DMM special features					
Low pass filter (LPF)	–	–	–	–	√
Non-contact voltage detection (Vsense)	–	–	–	–	√
General specifications					
IP rating, drop test	IP 67, 10 ft (3 meters)	IP 67, 10 ft (3 meters)	IP 67, 10 ft (3 meters)	IP 67, 10 ft (3 meters)	IP 67, 10 ft (3 meters)
Safety protection	CAT III 1000 V/ CAT IV 600 V	CAT III 1000 V/ CAT IV 600 V	CAT III 1000 V/ CAT IV 600 V	CAT III 1000 V/ CAT IV 600 V	CAT III 1000 V/ CAT IV 600 V
Operating temperature	–20 °C to +55 °C	–20 °C to +55 °C	–20 °C to +55 °C	–40 °C to +55 °C	–40 °C to +55 °C
Battery life	270 hours	270 hours	270 hours	160 hours	160 hours
Included accessories					
Test lead set, alligator clips, IR-to-USB cable	√	√	√	√	√
Remote switch probe	–	√	–	√	√
Bluetooth adapter (U1117A)	–	√	–	√	√
Thermocoupler adapter (J/K Type), bead (J-Type, K-Type)	–	–	–	–	√
Batteries	4x AA alkaline	4x AA alkaline 2 x AAA lithium ⁴	4x AA alkaline	4x AA lithium 2 x AAA lithium ⁴	4x AA lithium 2 x AAA lithium ⁴
Warranty	3 years	3 years	3 years	3 years	3 years

1. Require Agilent Handheld Logger software for Windows PC and Agilent Insulation Tester Application for for iOS/Android.
2. User selectable display resolution in MENU default is 6,600 counts.
3. Automatically identify the signal component (AC or DC) of an electrical source.
4. The U1117A IR-to-Bluetooth adapter and 2x AAA batteries are not shipped as a standard accessory for certain countries. Please refer to www.agilent.com/find/U1117A for more information.

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Technical data, availability and pricing subject to change without notice.
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 5991-4223EN

Recommended accessories



U1117A
IR-to-Bluetooth adapter



U5403A
Remote switch probe

Agilent's new insulation resistance tester family



3 **Three-Year Warranty**
www.agilent.com/find/ThreeYearWarranty

5 **Agilent Assurance Plans**
www.agilent.com/find/AssurancePlans

Recommended service options

Additional two years of Return-to-Agilent warranty
 Additional two years of Return-to-Agilent calibrations
 For more information go to www.agilent.com/find/insulationtesters