

# The New Series 6000

- Hipot Safety Analyser
- Hipot Tester
- Ground Bond Tester
- Insulation Tester
- Accessories



# A statement in the world of modern measurement technology

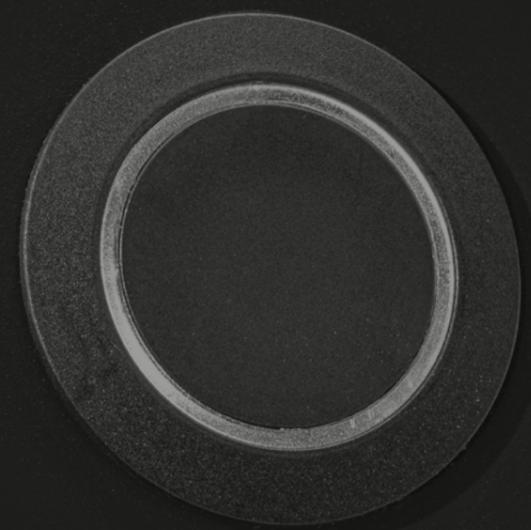
Our new measuring devices in elegant black not only offer maximum precision, but also a modern design that fits into any environment.

- The rounded corners and slanted front panel give a dynamic appearance
- Optimized visibility of the display thanks to the angled design
- Customisable connection plate depending on the country standard
- Small and compact with flat control elements
- A system-integrable 19" slide-in version is also available
- The new interface is intuitive to use and, thanks to the symbolism of the graphic elements internationally understandable. A new 7" color touch display in HD resolution is used.



# The indispensable tool for electrical safety testing

Thanks to their advanced technology, the 6000 Series is an indispensable tool for anyone involved in electrical safety testing. The new operating concept is one of the many advantages.



## Analogue elements

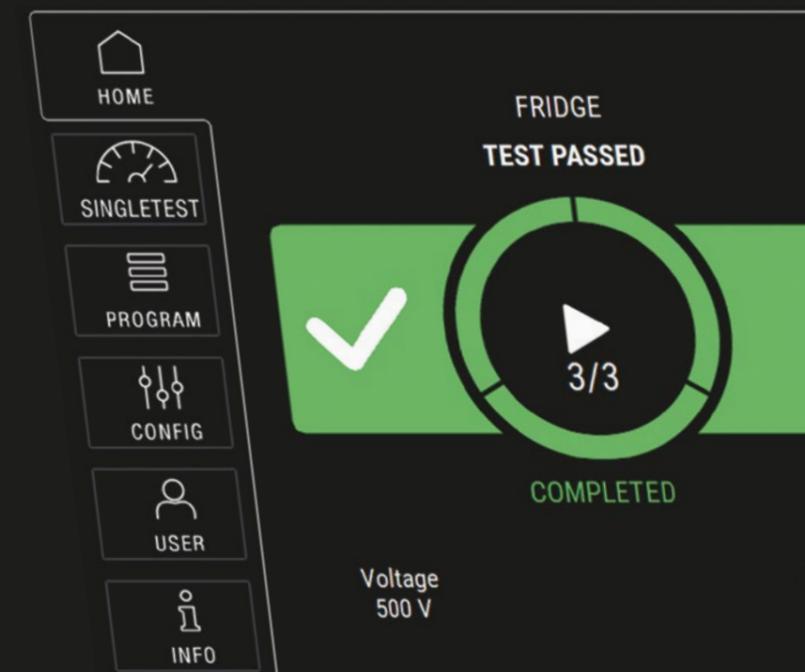
Sophisticated operation that is reduced to the essentials. Flat, precise operating elements ensure intuitive handling.

## The display

The new 7-inch HD touch display sets new standards. Every input feels seamless and is supported by a razor-sharp display.

## Intuitive operation

The digital interface offers a user experience that is as simple as it is innovative. With clear symbols and a well thought-out design, it is universally understandable.



# Hipot Safety Analyser **S 6600H, S 6600U** **S 6700H, S 6700U**

Whatever electrical safety test you need to carry out, with a Hipot Safety Analyser you will always make the right choice.

Our safety tester combine up to 7 test types in one compact device - from high-voltage testing, insulation testing and ground bond testing to functional testing. Our devices for testing electrical safety enable tests in accordance with all common standards (VDE, EN, IEC, etc.).

The products impress with a wide range of technical features:

- Numerous interfaces
- Automatic test sequence
- Fully electronic generator (for even faster and more accurate tests)
- and many other features

S 6600H



S 6600U



S 6700H



S 6700U



		S 6600H	S 6600U	S 6700H	S 6700U
High Voltage Test AC	Voltage Range	100 V - 5500 V			
	Current Range	0 mA - 20 mA			
High Voltage Test DC	Voltage Range	100 V - 6000 V			
	Current Range	0 mA - 20 mA			
Insulation Measurement DC	Voltage Range	100 V - 6000 V			
	Measuring Range	100 kΩ - 50 GΩ			
Ground Bond Test	Test Current AC	1 A - 32 A			
	Measuring Range	1 mΩ - 6 Ω			
Equivalent Leakage Current Test	Test Voltage AC			90 V - 270 V	
	Measuring Range			0 mA - 10 mA	
Continuity Test Resistance Measurement	Measuring Range	1 Ω - 1 MΩ			
	Measured Variables in Function Test	Current AC / DC		16 A AC / 10 A DC	
Digital Interface 24 VDC	Input	4			
	Output	4			
Mains Supply	Voltage	90 V - 250 V			
	Frequency	50 Hz / 60 Hz			
Computer Interfaces	USB	✓			
	Ethernet / LAN	✓			
Handling	Touch Display	✓			
	Dimensions and Weight (approx.)	7"			
Dimensions and Weight (approx.)	Height	148 mm   5.8 in			
	Width	420 mm   16.5 in			
	Depth	508 mm   20.0 in			
	Weight	20,4 kg   45.0 lbs			

Subject to change and error.

# Hipot Tester **HA 6600H, HA 6680U**

Our Hipot tester offer you exactly what you need for your high-voltage testing - from manual stand-alone devices to automatic multifunctional devices.

Our tester generally offer a freely programmable test voltage level of up to 5500 V AC or 6000 V DC at up to 100 mA. Our products also allow you to freely set the type and duration of the test and the maximum leakage current.

With all of our high-voltage tester, an insulation resistance test is possible in addition to the high-voltage test, as both tests are usually carried out at the same points on the electrical devices.

The products impress with a wide range of technical features:

- Ideal for fast, cost-effective and convenient safety testing
- National and international standards (IEC, EN, UL, VDE, etc.)
- Simple instructions make operation intuitive and efficient
- A fully automatic test plan can be created for each product
- Can also be used by non-professionals
- Fully electronic high-voltage generator, which ensures accurate and fast testing

HA 6600H



HA 6680U



		HA 6600H	HA 6680U
		Desktop device	19" rack device
High Voltage Test AC	Voltage Range	100 V - 5500 V	
	Current Range	0 mA - 20 mA	
High Voltage Test DC	Voltage Range	100 V - 6000 V	
	Current Range	0 mA - 20 mA	
Insulation Measurement DC	Voltage Range	100 V - 6000 V	
	Measuring Range	100 kΩ - 50 GΩ	
Digital Interface 24 VDC	Input	4	
	Output	4	
Mains Supply	Voltage	90 V - 250 V	
	Frequency	50 Hz / 60 Hz	
Computer Interfaces	USB	✓	
	Ethernet / LAN	✓	
Handling	Touch Display	✓	
	Dimensions and Weight (approx.)	7"	
Dimensions and Weight (approx.)	Height	148 mm   5.8 in	133 mm   5.2 in
	Width	420 mm   16.5 in	482 mm   19.0 in
	Depth	508 mm   20.0 in	439 mm   17.3 in
	Weight	20,4 kg   45.0 lbs	20,4 kg   45.0 lbs

Subject to change and error.

# Ground Bond Tester **P 6600H, P 6600U**

**Our Ground Bond Tester are used to check whether any leakage current that may occur is dissipated correctly.**

The protective conductor tester measures whether the permissible limit values of the protective conductor resistance specified in the standards (IEC, EN, UL, VDE, etc.) are not exceeded.

Recognize:

- Interrupted protective conductors
- Ground bond with too high an impedance
- Poor contact resistance
- Loose contacts or poor terminals of the ground bond

The products impress with a wide range of technical features:

- Ideal for fast, cost-effective and convenient safety testing
- National and international standards (IEC, EN, UL, VDE, etc.)
- Thanks to the individually configurable test programs, a fully automatic test plan can also be created for each product
- The device is suitable for end-of-line tests as well as for preliminary tests.
- It also has a fully electronic generator that ensures accurate and fast testing



		P 6600H	P 6600U
<b>Subjective Tests</b>	Text-Step	Subjective or informative	
<b>Ground Bond Test</b>	Open Circuit Voltage	6 V	
	Test Current	1 A - 32 A AC	
	Resistance	1 mΩ - 6 Ω	
<b>Digital Interface 24 VDC</b>	Input	4	
	Output	4	
<b>Mains Supply</b>	Voltage	90 - 250 V	
	Frequencies	50 Hz / 60 Hz	
<b>Generator</b>		Fully electronic, digital generator	
<b>Computer Interfaces</b>	USB	√	
	Ethernet / LAN	√	
<b>Handling</b>	Touch	√	
	Display	7"	
<b>Socket Selection</b>		A, B, E, G, I, J, L	
<b>Dimensions and Weight (approx.)</b>	Height	148 mm   5.8 in	
	Width	420 mm   16.5 in	
	Depth	508 mm   20.0 in	
	Weight	20,4 kg   45.0 lbs	

Subject to change and error.

# Insulation Tester **IS 6600H, IS 6680H**

**Insulation Tester make it possible to measure the insulation of an electrical device.**

The insulation test must be carried out on both protection class I (with PE protective conductor) and protection class II (without PE protective conductor) devices. When measuring the insulation resistance, a test voltage of 500 V DC is usually applied.

Recognize:

- Insulation weaknesses between any electrical conductors to the protective conductor / device housing
- Insulation weaknesses between the electrical conductors
- Poor insulation on air and creepage distances



		IS 6600H	IS 6680H
		Desktop device	19" rack device
<b>High Voltage Test DC</b>	Voltage Range	100 V - 6000 V	
	Current Range	0 mA - 20 mA	
	Short Circuit Current	>20 mA	
	Residual Ripple	< 3%	
<b>Insulation Measurement DC</b>	Voltage Range	100 V - 6000 V	
	Measuring Range	100 kΩ - 50 GΩ	
	Residual Ripple	< 3%	
<b>Digital Interface 24 VDC</b>	Input	4	
	Output	4	
<b>Mains Supply</b>	Voltage	90 V - 250 V	
	Frequency	50 Hz / 60 Hz	
<b>Computer Interfaces</b>	USB	√	
	Ethernet / LAN	√	
<b>Handling</b>	Touch	√	
	Display	7"	
<b>Dimensions and Weight (approx.)</b>	Height	148 mm   5.8 in	133 mm   5.2 in
	Width	420 mm   16.5 in	482 mm   19.0 in
	Depth	508 mm   20.0 in	439 mm   17.3 in
	Weight	20,4 kg   45.0 lbs	20,4 kg   45.0 lbs

Subject to change and error.

# Hipot Safety Analyser **KT 6780H, KT 6680U**

Whatever electrical safety test you need to carry out, with a Hipot Safety Analyser you will always make the right choice.

Our safety tester combine up to 7 test types in one compact device - from high-voltage testing, insulation testing and ground bond testing to functional testing. Our devices for testing electrical safety enable tests in accordance with all common standards (VDE, EN, IEC, etc.).

The products impress with a wide range of technical features:

- Numerous interfaces
- Automatic test sequence
- Fully electronic generator (for even faster and more accurate tests)
- and many other features

Our Hipot safety analyser can also be used as a stand-alone device without a PC.

KT 6780H



KT 6680U

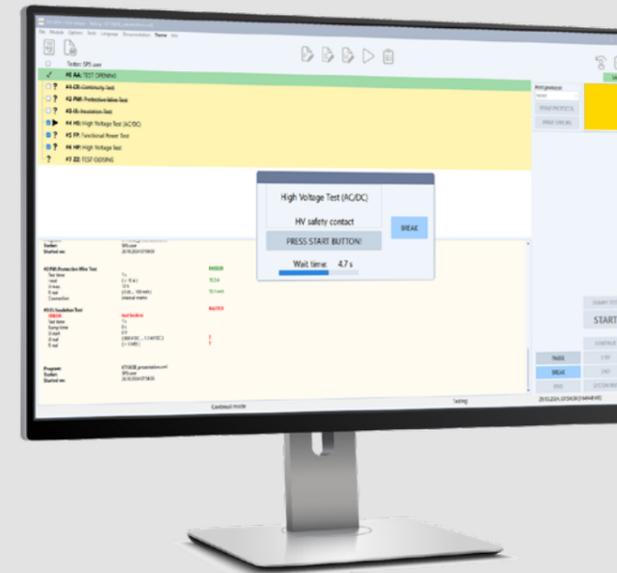


		KT 6780H	KT 6680U
High Voltage Test AC	Voltage Range	100 V - 5500 V	
	Current Range	0 mA - 20 mA	
	Short Circuit Current	>20 mA	
High Voltage Test DC	Voltage Range	100 V - 6000 V	
	Current Range	0 mA - 20 mA	
	Short Circuit Current	>20 mA	
	Residual Ripple	< 3%	
Insulation Measurement DC	Voltage Range	100 V - 6000 V	
	Measuring Range	100 kΩ - 50 GΩ	
	Residual Ripple	< 3%	
Ground Bond Test	Test Current AC	1 A - 32 A	
	Measuring Range	1 mΩ - 6 Ω	
	Open Circuit Voltage	6 V	
Equivalent Leakage Current Test	Test Voltage AC	90 V - 270 V	
	Measuring Range	0 mA - 10 mA	
Continuity Test Resistance Measurement	Measuring Range	1 - 100 kΩ (1 Ω - 1 MΩ)	
	Measured Variables in Function Test	Current AC / DC	16 A AC / 10 A DC
Voltage AC / DC		250 V AC / 200 V DC	
Active Power		0 W - 4000 W	
ReActive Power		0 - 4000 var	
Apparent Power		0 VA - 4000 VA	
Cos φ		-1 - +1	
Digital Interface 24 VDC		Input	4
	Output	4	
Mains Supply	Voltage	90 V - 250 V	
	Frequency	50 Hz / 60 Hz	
Computer Interfaces	USB	✓	
	Ethernet / LAN	✓	
Handling	Touch Display	✓	
		7"	
Dimensions and Weight (approx.)	Height	133 mm   5.2 in	
	Width	482 mm   19.0 in	
	Depth	439 mm   17.3 in	
	Weight	20,4 kg   45.0 lbs	

Subject to change and error.



## Our software packages



### Remote control & data acquisition **DAT 3810**

The DAT 3810 software processes measurement data and analyses completed tests. The test process can run both automatically and in single-step mode. The software supports network connections and enables the creation and storage of test programmes (XML or ACCESS format).

Helpful text and image steps guide the inspector through the process. The user interface is intuitive to operate.

### Data acquisition **DAT Collect 38**

The DAT Collect 38 software is used to record and centralise test results. It enables the collection and storage of test results from all test devices and test systems operated with DAT 3800, DAT 3805 or DAT 3810.

The results must be saved in an SQL database and can be read via a web server (in JSON format). The results can be displayed using DAT Visual 38 or a visualisation solution already available to the customer.

### Visualisation **DAT Visual 38**

The DAT Visual 38 software is used to visualise test results. It offers a comprehensive visualisation of all test devices and systems. The output can be displayed in a wide variety of forms. This enables a quick overview and comparability of the test devices and systems as well as rapid recognition of target and actual values.

### Label printing **LBD 18**

The LBD 18 extension is a design software for label printing and can be used in combination with the DAT 3805 and DAT 3810.

### Code library **DLL 3810**

This extension is used for remote control of our device series by external programming via RS-232, USB or Ethernet interface.

# Accessories



Connection box A2/6600

- For test specimens with protective conductor connection (protection class I)
- Connections vary depending on device type
- Mains connection of the device under test via socket in accordance with national standard

The following country standards are available:

- EU Type E, US Type B (NEMA 5-15R), I Type L (10 A und 16 A)
  - CH Type J, UK Type G, AUS Type I
- Other country standards on request



Connection box A3/6600

- For test specimens with protective conductor connection (protection class I)
- Connections vary depending on device type
- Mains connection of the test sample via universal socket PP 66.
- The following country standards are possible: Switzerland, Great Britain, Italy, Brazil, China, Australia, England and USA



High-voltage test probe SP 02

- Required for test specimens protection class II
- ST 02 connection overplug on connection panel A4/6600
- Connection cable approx. 2 m long (other lengths: 3 / 5 / 10 / 15 m)



Ground bond test probe PE 81-I

- Ergonomic plastic housing
- Replaceable tungsten test probe
- Without start button function
- Connection via 2 4 mm banana plugs
- Connection cable approx. 2 m long (other lengths: 5 / 10 / 15 m)



Connection box A4/6600

- For test specimens without protective conductor connection (protection class II)
- Connections vary depending on device type
- Mains connection of the DUT via universal socket outlet PP 20.
- The universal socket outlet PP 20 can be used for the following country standards: Australia, Austria, Brazil, China, Denmark, Germany, Great Britain, Hungary, Italy, Netherlands, New Zealand, Poland, Portugal, Spain, Sweden, Switzerland, Turkey and USA. A BU 02 high-voltage socket is available for contacting the test points of the test object (for connecting a SP 02 high-voltage test pistol).



Connection box A9/6600

- For test specimens with protective conductor connection (protection class I)
- Connections vary depending on device type
- Mains connection of the test sample via manual terminals L, N, PE
- Dimensions: 60 x 50 x 130 mm (WxHxD)
- Connection cable approx. 1.5 m long



Ground bond test probe PE 81-i

- Ergonomic plastic housing
- Replaceable tungsten test probe
- Incl. start button
- ST 04-i high-current plug for direct connection on the front panel of the device
- Connection cable approx. 2 m long (other lengths: 5 / 10 / 15 m)



Adapter cable ST 05-i

- High-current cable with control cables
- High-current plug ST 04-i
- Cable with free ends, approx. 2 m long (other lengths: 5 / 10 / 15 m)



### Kelvin clamp KL 90-i

- Kelvin clamp
- Connection via high-current plug ST 04-i
- Connection cable approx. 2 m long (other lengths: 5 / 10 / 15 m)



### Test cable KL 63-n

- For all high-voltage tests
- Socket to IEC 60320 for connecting the DUT
- 1 banana plug 4 mm and 1 high-voltage plug ST 14
- Connection cable approx. 2 m long (other lengths: 5 / 10 / 15 m)
- For device: HA 6680U



### Crocodile clip KL 89-i

- Crocodile clip
- Connection via high-current plug ST 04-i
- Connection cable approx. 2 m long (other lengths: 5 / 10 / 15 m)



### Test cable KL 62-m

- For all insulation measurements
- 2 crocodile clips for connection to the test specimen
- 2 pieces high voltage plug ST 14
- Connection cable approx. 2 m long (other lengths: 5 / 10 / 15 m)
- For devices: IS 6600H, IS 6680H



### Magnetic PE conductor connection PE 25-i

- Magnetic connection holder with crown pin
- Connection via high-current plug ST 04-i
- Connection cable approx. 2 m long (other lengths: 5 / 10 / 15 m)



### Test cable KL 63-m

- For all insulation measurements
- Socket according to IEC 60320 for connecting the DUT
- 2 pieces high voltage plug ST 14
- Connection cable approx. 2 m long (other lengths: 5 / 10 / 15 m)
- For devices: IS 6600H, IS 6680H



### Magnetic PE conductor connection PE 25-l

- Magnetic connection holder with crown pin
- Connection via 4 mm banana plug
- Connection cable approx. 2 m long (other lengths: 5 / 10 / 15 m)



### Test cable KL 62-l

- For all protective conductor tests
- 1 crocodile clip for connection to the test object
- 2 banana plugs 4 mm
- Connection cable approx. 2 m long (other lengths: 5 / 10 / 15 m)
- For devices: P 6600H, P 6600U



### Test cable KL 62-n

- For all high-voltage tests
- 2 crocodile clips for connection to the test specimen
- 2 banana plugs 4 mm and 1 high-voltage plug ST 14
- Connection cable approx. 2 m long (other lengths: 5 / 10 / 15 m)
- For device: HA 6680U



### Test cable KL 63-l

- For all protective conductor tests
- Socket according to IEC 60320 for connecting the DUT
- 2 banana plugs 4 mm
- Connection cable approx. 2 m long (other lengths: 5 / 10 / 15 m)
- For devices: P 6600H, P 6600U



### Test cable KL 62-r

- For all safety and functional tests
- 3 crocodile clips for connecting free cable ends to the test specimen
- 2 banana plugs 4 mm and 2 high-voltage plugs ST 14
- Connection cable approx. 2 m long (other lengths: 5 / 10 / 15 m)
- For devices: S 6700U, KT 6780H



### Kelvin clamp KL 90-I

- Kelvin clamp
- Connection via 2 4 mm banana plugs
- Connection cable approx. 2 m long (other lengths: 5 / 10 / 15 m)



### Test cable KL 63-r

- For all safety and functional tests
- Socket to IEC 60320 for connecting the test object
- 2 banana plugs 4 mm and 2 high-voltage plugs ST 14
- Connection cable approx. 2 m long (other lengths: 5 / 10 / 15 m)
- For devices: S 6700U, KT 6780H



### Residual current circuit-breaker FI 30

- For the protection of the user during the function test
- Limit value 30 mA
- Connection cable 2 m long
- The plug according to the national standard for supplying the functional voltage must be selected (position CY 02)



### Test cable KL 62-p

- For all safety tests (without leakage current test)
- 3 crocodile clips for connecting free cable ends to the test specimen
- 2 banana plugs 4 mm and 1 high-voltage plug ST 14
- Connection cable approx. 2 m long (other lengths: 5 / 10 / 15 m)
- For devices: S 6600U, KT 6680U



### Test verification box D 2012

- PVC housing 60 x 120 x 90 mm
- Connection options: IEC socket and brass surfaces for protective conductor pin
- Simulations (GOOD/FALSE)
  - High voltage test (surge arrester 1000 VAC)
  - Insulation measurement ( $\infty$  / 1 M $\Omega$ )
  - Leakage current measurement ( $\infty$  / 50 k $\Omega$ )
  - Protective conductor measurement (100 m $\Omega$  / 200 m $\Omega$ )
- For insulation and leakage current measurement, the fault resistors are connected with switches
- During the high-voltage test, a surge arrester is connected with a switch
- The resistors for the protective conductor test are connected via contact surfaces (protective conductor test pin) Including special mains cable D2012-NK



### Test cable KL 63-p

- For all safety tests (without leakage current test)
- Socket to IEC 60320 for connecting the test object
- 2 banana plugs 4 mm and 1 high-voltage plug ST 14
- Connection cable approx. 2 m long (other lengths: 5 / 10 / 15 m)
- For devices: S 6600U, KT 6680U (without leakage current test)



### Crocodile clip KL 89-I

- Crocodile clip
- Connection via 2 4 mm banana plugs
- Connection cable approx. 2 m long (other lengths: 5 / 10 / 15 m)



### Calibration certificate

- Factory calibration
- Calibration certificate according to ISO/IEC 17025:2018

# Security to the highest standards - worldwide

For 45 years we have been developing and producing testing technology for electrical safety. From individual planning to development and development through to support.

## Measuring & Testing Equipment

- Customised Test Systems
- Hipot Safety Analyser
- Hipot Tester
- Partial Discharge Tester
- Surge Tester
- Ground Bond Tester
- Insulation Tester
- Accessories



## High-Voltage Components

- High-Voltage Relays
- High-Voltage Connectors
- High-Voltage Cables
- High-Voltage Test Probes



## Services

- Trainings
- Maintenance & Calibration / IEC 17025
- Repair



## How can we help?



You can either find one of our partners in your area on our website or write to us directly using the contact form.



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