

Nous mesurons.

**testo**



# Electrical measurement technology. Re-invented.

Simpler and safer: the new era of measuring instruments from Testo.

# High-tech from the Black Forest.

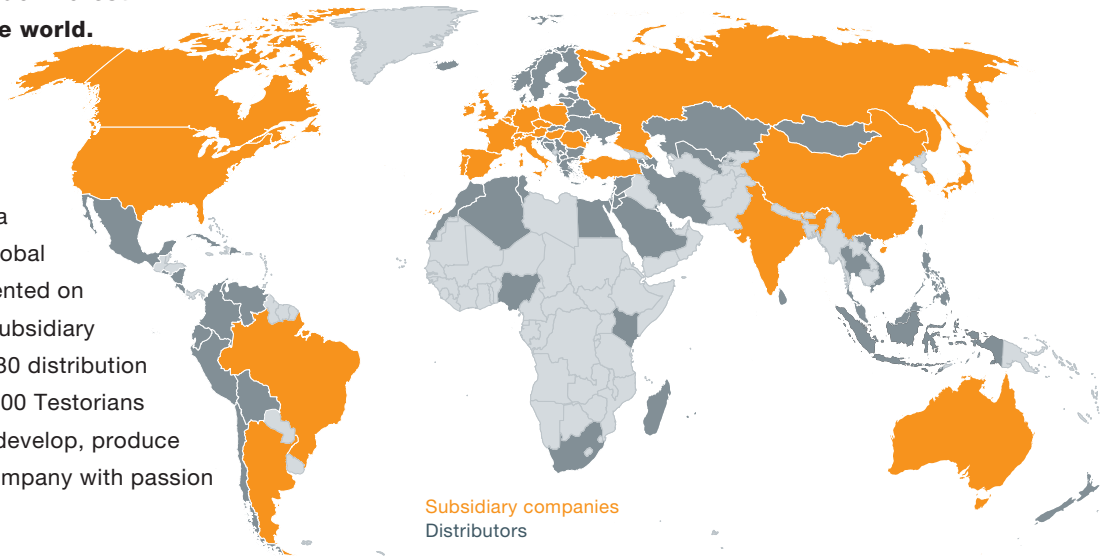
For more than 55 years, Testo has stood for innovative measuring solutions made in Germany. As an expert in measurement technology and world market leader in portable measurement technology, we convince over 650,000 customers worldwide with highly precise measuring instruments for many different sectors. Whether in refrigeration, air conditioning and environmental technology, industrial applications, for exhaust and flue gas analysis, in the pharmaceutical and health sectors, for the monitoring of indoor air and food quality, or in the electrical field – we measure it. Our products help to save time and resources, to protect the environment and the health of humans, and to increase the value of goods and services.



## With roots in the Black Forest.

### At home all over the world.

Our headquarters are in Lenzkirch in the Black Forest. However, Testo has for many years been a constantly growing global concern, now represented on all continents by 30 subsidiary companies and over 80 distribution partners. Roughly 2,500 Testorians worldwide research, develop, produce and market for the company with passion and expertise.



## Our innovations are the engine which drives you forward.

The requirements for practical measurement solutions are becoming increasingly more complex and specific. That is why we have set ourselves the key task of identifying these customer requirements in industry and trade and translating them permanently into new technology. We carry out our own intensive research, which has given us a leading role in the market for decades.

On the following pages, we present to you the result of extensive research in electrical measurement technology: revolutionary measuring instruments which make your daily job safer and more efficient than ever before.



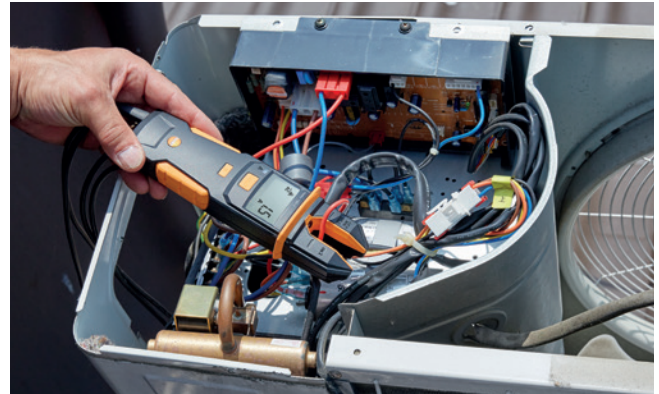
# Electrical measurement technology. Re-invented.

The innovative electrical measuring instruments from Testo stand out due to their extraordinary high level of user-friendliness, setting new standards with intelligent and completely new technology.

Digital multimeters with automatic measurement parameter recognition, clamp meters with a unique grab mechanism, or voltage testers which also measure current – welcome to a new era.



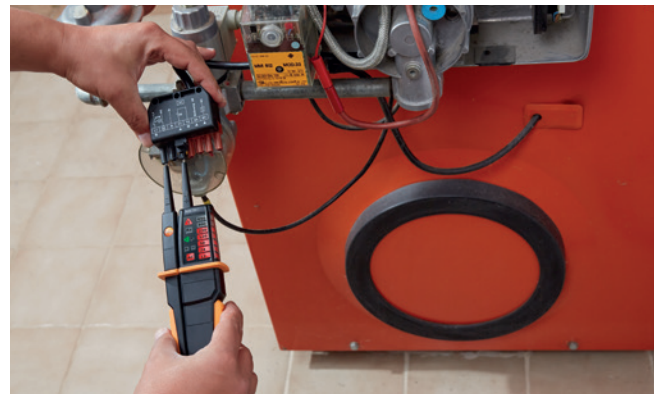
Testing voltage on a heat pump with **testo 755**.



Measuring current on an outside refrigeration unit with **testo 755**.



Measuring voltage on an outside refrigeration unit with **testo 760**.



Error detection in a heating system with **testo 750**.



Measuring voltage on an air conditioning unit with **testo 770**.



Checking voltage on a distributor box with **testo 745**.

# Recognizes measurement parameters automatically.

## The digital multimeter **testo 760**.

The three models of the **testo 760** eliminate incorrect settings, because the measurement parameters are detected automatically via the assignment of the measuring sockets and also shown by the illumination of the appropriate function keys. Function keys replace the traditional dial, which means easier operation and greater reliability.



Measurement parameter recognition by socket allocation



Easy, modern operation with function keys instead of a dial



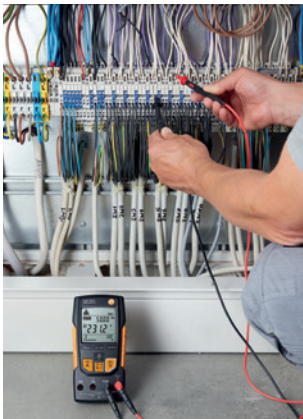
True root mean square measurement - TRMS



Large, backlit LCD display



Testing voltage in the switching box of a heat pump.



Testing voltage in a switching cabinet.



Ionization current measurement set-up

Digital multimeter model comparison	testo 760-1	testo 760-2	testo 760-3
Automatic measurement parameter detection	✓	✓	✓
Easy and modern operation with function keys instead of a dial	✓	✓	✓
Illuminated display	✓	✓	✓
True root mean square measurement - TRMS	✗	✓	✓
µA current measuring range	✗	✓	✓
Low-pass filter	✗	✓	✓
Voltage range up to 1,000 V	✗	✗	✓

Technical data	testo 760-1	testo 760-2	testo 760-3
Voltage measuring range	0.1 mV to 600 V AC/DC		0.1 mV to 1,000 V AC/DC
Current measuring range	1 mA to 10 A AC/DC	0.1 µA to 10 A AC/DC	
Resistance measuring range	0.1 to 40 MΩ	0.1 to 60 MΩ	
Frequency measuring range	0.001 Hz to 500 kHz	0.001 Hz to 30 MHz	0.001 Hz to 60 MHz
Capacitance measuring range	0.001 nF to 100 µF	0.001 nF to 30,000 µF	0.001 nF to 60,000 µF
Temperature measuring range	-	-20 to +500 °C	
Display (counts)	4,000	6,000	
Measurement category	CAT IV 300 V CAT III 600 V	CAT IV 600 V CAT III 1000 V	
Protection class	IP 64		
Authorizations	TÜV, CSA, CE		
Standards	EN 61326-1		









# Grab cables without touching.

## The clamp meter **testo 770**.

The three instruments in the testo 770 clamp meter family are ideally suited for current measurement in switching cabinets. One of the two pincer arms can be fully retracted into the instrument. This unique grab mechanism means that cables in tight switching cabinets can be easily grabbed. The automatic measurement parameter detection also ensures reliable work: in the current and voltage area, all three instruments detect direct and alternating current and select other parameters such as resistance, continuity, diode and capacitance automatically.



-  Unique grab mechanism makes it easier to work at tight measuring points
-  Auto AC/DC for current and voltage
-  Large two-line display
-  True root mean square measurement - TRMS
-  With additional functions, such as starting current, power and  $\mu$ A measurement
-  Bluetooth and testo Smart Probes App



Measuring current in a switching cabinet.



Measuring voltage on the switching box of a heat pump with suspended measuring instrument.



Hooking the clamp meter into an outside refrigeration unit.

Clamp meter model comparison	testo 770-1	testo 770-2	testo 770-3
Unique grab mechanism	✓	✓	✓
Automatic measurement parameter detection	✓	✓	✓
Two-line display	✓	✓	✓
True root mean square measurement - TRMS	✓	✓	✓
Inrush measurement	✓	✓	✓
$\mu$ A current measuring range	-	✓	✓
Bluetooth and testo Smart Probes App	-	-	✓
Power measurement	-	-	✓

Technical data	testo 770-1	testo 770-2	testo 770-3
Voltage measuring range	1 mV to 600 V AC/DC		
Current measuring range	0.1 to 400 A AC/DC		0.1 to 600 A AC/DC
Power measurement	-		✓
$\mu$ A measuring range	-	0.1 to 400 $\mu$ A AC/DC	
Resistance measuring range	0.1 $\Omega$ to 40 M $\Omega$		0.1 $\Omega$ to 60 M $\Omega$
Frequency measuring range	0.001 Hz to 10 kHz		
Capacitance measuring range	0.001 $\mu$ F to 100 $\mu$ F		0.001 $\mu$ F to 60,000 $\mu$ F
Temperature measuring range	-	-20 to +500 $^{\circ}$ C	
Bluetooth and testo Smart Probes App	-		✓
Display (counts)	4,000		6,000
Measurement category	CAT IV 600 V / CAT III 1000 V		
Authorizations	TÜV, CSA, CE		
Standards	EN 61326-1, EN 61140		

# Comfortably legible from any position.

## The voltage tester **testo 750**.

The three models in the testo 750 voltage tester family are the first instruments with an all-round LED display. The display can be seen from any position and guarantees an ideal voltage indication thanks to its unique fibre optics. All three models meet the latest voltage tester standard EN 61243-3:2010 and have a safety specification according to CAT IV. They have the most important functions for voltage testing, continuity testing and rotating magnetic field measurement.



Clear, patented all-round display with fibre-optic technology



Anti-slip ring for secure grip



Ergonomic handle shape



Measuring point illumination



Measuring voltage in a switching cabinet.



Measuring voltage on a compressor.



Measuring voltage on a boiler.

Voltage tester model comparison	testo 750-1	testo 750-2	testo 750-3
Patented all-round LED display	✓	✓	✓
Fibre-optics for optimum voltage indication	✓	✓	✓
Anti-slip ring	✓	✓	✓
Ergonomic handle shape	✓	✓	✓
Certified according to voltage tester norm DIN EN 61243-3:2010.	✓	✓	✓
Measurement point illumination	✗	✓	✓
Single-pole voltage testing	✗	✓	✓
RCD trigger function	✗	✓	✓
Additional LC display	✗	✗	✓

Technical data	testo 750-1	testo 750-2	testo 750-3
Voltage testing	12 to 690 V AC/DC		
Continuity testing	< 500 kΩ		
Rotating magnetic field testing	100 to 690 V AC/DC at 50/60 Hz		
Single pole phase testing	-	100 to 690 V AC/DC at 50/60 Hz	
Measurement category	CAT IV 600 V / CAT III 1000 V		
Protection class	IP 64		
Authorizations	TÜV, CSA, CE		
Standard	EN 61243-3:2010		

# The first voltage tester measuring current.

## The current/voltage tester **testo 755**.

They are the first of their kind: voltage testers which meet the latest standard and which can also measure current. This means the two instruments are suitable for virtually all daily electrical measuring tasks. Each time they are used they automatically select the right settings and therefore prevent dangerous incorrect settings. Both models have all the important functions for determining voltage/de-energization, for measuring current and resistance, as well as for continuity tests. Their measuring tips can be changed easily, so that the whole instrument does not need to be replaced in the event of damage.



Measuring voltage on a compressor.

Technical data	testo 755-1	testo 755-2
Voltage measuring range	6 to 600 V AC/DC	6 to 1000 V AC/DC
Current	0.1 to 200 A AC	
Resistance	1 Ω to 100 kΩ	
Continuity testing		< 50 Ω
Rotating magnetic field testing	-	100 to 690 V AC at 50/60 Hz
Single pole phase testing	-	100 to 690 V AC at 50/60 Hz
Display (counts)	4,000	
Measurement category	CAT IV 600 V CAT III 1000 V	
Protection class	IP 64	
Authorizations	TÜV, CSA, CE	

Current/voltage tester model comparison	testo 755-1	testo 755-2
Certified according to voltage tester norm DIN EN 61243-3:2010.	✓	✓
Automatic measurement parameter detection	✓	✓
Measuring point illumination	✓	✓
Exchangeable measuring tips	✓	✓
Voltage range up to 1,000 V	✗	✓
Single pole phase testing	✗	✓
Rotating field measurement	✗	✓

# Filters high-frequency interference.

## The non-contact voltage tester **testo 745**.

The non-contact voltage tester with a measuring range of up to 1,000 V is particularly well-suited to fast initial checking of any suspected fault sources. When the presence of alternating voltage is determined, the testo 745 gives a warning via a clear visual and acoustic signal. In order to increase the reliability, the voltage tester has a filter for high-frequency interference.



First test of voltage supply on a compressor.

Technical data	
Voltage testing	12 to 1,000 V AC
Measurement category	CAT IV 600 V CAT III 1000 V
Authorizations	CSA, CE
Standards	EN 61326-1, EN 61010-1





# Ordering data

Multimeter <b>testo 760</b>	Order no.	
testo 760-1, multimeter, including batteries and 1 set of measuring cables	0590 7601	
testo 760-2, TRMS multimeter, including batteries, 1 set of measuring cables and 1 x adapter for type K thermocouples	0590 7602	
testo 760-3, TRMS multimeter, including batteries and 1 set of measuring cables	0590 7603	
<b>testo 760-1/-2/-3 accessories</b>		
Magnetic hook	0590 0001	
Set of safety crocodile clips	0590 0008	
Set of crocodile clips	0590 0009	
Set of 2 mm standard measuring cables (angled plug)	0590 0010	
Set of 4 mm standard measuring cables (angled plug)	0590 0011	
Set of 4 mm standard measuring cables (straight plug)	0590 0012	
Set of measuring cable extensions (straight plug)	0590 0013	
Set of measuring cable extensions (angled plug)	0590 0014	
testo 760 transport bag	0590 0016	
<b>testo 760-1/-2 accessories</b>		
Set of 5 x 10 A/600 V spare fuses	0590 0005	
Set of 5 x 630 mA/600 V spare fuses	0590 0007	
<b>testo 760-2/-3 accessories</b>		
Thermocouple adapter (Type K)	0590 0002	
Clamp meter adapter	0590 0003	
<b>testo 760-3 accessories</b>		
Set of 5 x 10 A/1000 V spare fuses	0590 0004	
Set of 5 x 630 mA/1000 V spare fuses	0590 0006	
ISO calibration certificate multimeter	0520 0760	
DAkkS calibration certificate multimeter	0520 0761	
<b>Voltage tester <b>testo 750</b></b>		
testo 750-1, voltage tester including batteries, measuring tip protector and measuring tip caps	0590 7501	
testo 750-2, voltage tester including batteries, measuring tip protector and measuring tip caps	0590 7502	
testo 750-3, voltage tester including batteries, measuring tip protector and measuring tip caps	0590 7503	
<b>testo 750 accessories</b>		
testo 750 transport bag	0590 0018	
ISO calibration certificate voltage tester	0520 0750	
DAkkS calibration certificate voltage tester	0520 0751	

Clamp meter <b>testo 770</b>	Order no.	
testo 770-1, TRMS current probe, including batteries and 1 set of measuring cables	0590 7701	
testo 770-2, TRMS current probe, including batteries, 1 set of measuring cables and 1 x adapter for type K thermocouples	0590 7702	
testo 770-3, TRMS current probe, including batteries and 1 set of measuring cables	0590 7703	
<b>testo 770 accessories</b>		
Thermocouple adapter Type K (for testo 770-2/-3 only)	0590 0002	
Set of safety crocodile clips	0590 0008	
Set of crocodile clips	0590 0009	
Set of 4 mm standard measuring cables (angled plug)	0590 0011	
Set of 4 mm standard measuring cables (straight plug)	0590 0012	
Set of measuring cable extensions (straight plug)	0590 0013	
Set of measuring cable extensions (angled plug)	0590 0014	
testo 755 / testo 770 transport bag	0590 0017	
ISO calibration certificate clamp meter	0520 0770	
DAkkS calibration certificate clamp meter	0520 0771	

Current/voltage tester <b>testo 755</b>	Order no.	
testo 755-1, current/voltage tester including batteries and measuring tips	0590 7551	
testo 755-2, current/voltage tester including batteries and measuring tips	0590 7552	
<b>testo 755 accessories</b>		
testo 755 / testo 770 transport bag	0590 0017	
Set of replacement measuring tips	0590 0015	
ISO calibration certificate current/voltage tester	0520 0755	
DAkkS calibration certificate current/voltage tester	0520 0756	

Non-contact voltage tester <b>testo 745</b>	Order no.	
testo 745, non-contact voltage tester including batteries	0590 7450	
ISO calibration certificate voltage tester	0520 0750	
DAkkS calibration certificate voltage tester	0520 0751	

