

SECUTEST BASE / PRO and SECULIFE ST BASE(25)

Test Instruments for Measuring Electrical Safety of Devices

per VDE 0701-0702, IEC 62353 and IEC 60974-43

3-349-753-03
21/6.19

- Preconfigured test sequences for quickly testing simple operating equipment
- One universal, adjustable test sequence
- One test sequence executed with individual measurements
- Suitable for use by instructed persons
- Enormous data maintenance and storage concept for automated test sequences and measurements for up to 50,000 data records
- Fast access to measurement and test functions with double rotary switch, direct selection keys and softkeys
- High-resolution, brilliant 4.3" TFT color display
- Unique multiple measurement allows convenient recording of several measuring points.
- Automatic DUT connection and protection class detection
- Compact, impact resistant housing with integrated rubber protector
- Comprehensive, legally secure preparation of test reports
- Modern interfaces:
for data entry (two USB A) and data exchange (one USB B)
- Extensive setting options for international use (language, keyboard, character set, date, time)
- Testing of PRCDs of PRCD standard type, SPE-PRCD, PRCD-S and PRCD-K within test sequences in accordance with DIN VDE 0701-0702-PRCD.



.IQ



product
design award

2014



optional



Database Expansions for SECUTEST DB+ (Z853R)

(as of firmware 2.2.1)

- **Remote control** via PC software (**IZYTRONIQ**) possible.
- **Additional database elements** for property, building, floor and room for a better structuring of large data volumes and additional fields for department and cost center
- **Multiprint – print-out of several / all test reports** (to a connected Z721S thermal printer) which are available for a device under test by pressing just one key
- Create user-defined **report templates** and manage them in the SECUTEST, including company logo
- **Data export** of all data (master data and measured values) as a file to a USB flash drive
- **Data import** of all DUT master data (except measured values) from **IZYTRONIQ** or a USB flash drive into the SECUTEST
- Create **user-defined test sequences** in **IZYTRONIQ** and upload them to the SECUTEST
- New database field **test interval** (also for the synchronization with **IZYTRONIQ**)

Database Expansions for SECUTEST DB COMFORT (Z853S)

- New **database object Medicine** – Device with extended entry options
- The search function via the „**Search all**“ **softkey** now also allows for searching in the new field „**UDI**“ (Unique Device Identification) of medical devices.
- **User-defined test sequences** – the number of user-defined sequences has now been increased to 24
- **Shifting** of test objects – the „shifting“ of a (medical) device within the tree can be initiated by pressing and holding onto the tree symbol in the main display.
- **Touchedit** – the „editing“ of a (medical) device can be opened by pressing and holding onto the detailed view in the main display.
- **Autostore** – the Autostore function can be activated in the setup so that test results of the automatic test can be stored immediately under the selected test object.
- **PushPrint** – A PC connected with the test instrument can put the SECUTEST in another operating mode in which the data are sent directly to the connected PC instead of saving them.
- **QuickEdit** – When entering a new DUT, the QuickEdit option can be activated, thus enabling the user to enter all other fields in one go after entry of the ID numbers.
- New database field **Test interval** (as of version 2.0.0 also for synchronization with **IZYTRONIQ**)

SECUTEST BASE / PRO and SECULIFE ST BASE(25) Test Instruments for Measuring Electrical Safety of Devices

Overview of Features Included with SECUTEST BASE, SECUTEST PRO and SECULIFE ST BASE(25) Test Instruments

Switch Setting	Measuring Function, Test Current/Voltage	Measurement Type Connection Type
Single measurements, rotary switch level: green		
RPE	R_{PE} Protective conductor resistance Test current (200 mA) SECUTEST BASE10/PRO: and SECULIFE ST BASE 10 A ¹ (Feature G01) & SECULIFE ST BASE25: 25 A ¹ (Feature G02)	PE(TS) - P1 passive PE(TS) - P1 active PE(Mains) - P1 PE(Mains) - P1 Clamp ² P1 - P2 ³
	R_{ISO} Insulation resistance U_{ISO} Test voltage	LN(TS) - PE(TS) LN(TS) - P1 P1 - P2 ³ PE(Mains) - P1 PE(TS) - P1 LN(TS) - P1/PE(TS)
IPE	$I_{PE\approx}$ Protective conductor current, RMS value	Direct
	I_{PE-} AC component	Differential
	$I_{PE=}$ DC component	Alternative
	U_{LN} Test voltage	AT3-Adapter ² Clamp ²
Ib	$I_{T\approx}$ Touch current, RMS value	Direct
	I_{T-} AC component	Differential
	$I_{T=}$ DC component	Alternative (P1)
	U_{LN} Test voltage	Permanent connection Alternative (P1-P2)
Ig	$I_{E\approx}$ Device leakage current, RMS value	Direct
	I_{E-} AC component	Differential
	$I_{E=}$ DC component	Alternative
	U_{LN} Test voltage	AT3-Adapter ² Clamp ²
IA	$I_{A\approx}$ Leakage current from the application part, RMS value	Direct (P1) Alternative (P1)
	U_A Test voltage	Permanent conn. (P1)
IP	$I_{P\approx}$ Patient leakage current, RMS value	Direct (P1)
	I_{P-} AC component	Permanent conn. (P1)
	$I_{P=}$ DC component	
	U_{LN} Test voltage	
U	U_{\approx} Probe voltage, RMS	PE - P1
	U_{-} Alternating voltage component	PE - P1 (with mains*)
	$U_{=}$ Direct voltage component	* polarity preset
	U_{\approx} Measurement Voltage RMS ²	V - COM
	U_{-} Alternating voltage component ²	V - COM (with mains)
ta ⁴	t_B PRCD time to trip for 30 mA PRCDs	
	U_{LN} Line voltage at the test socket	
P	Function test at the test socket	
	I Current between L and N	
	U Voltage between L and N	
	f Frequency	Polarity preset
	P Active power	
	S Apparent power	
	PF Power factor	
Probe measuring functions		
EL1	Extension cords with adapter: continuity, short-circuit, polarity (wire reversal ⁵)	EL1 adapter AT3-III-E adapter VL2E adapter
EXTRA	Reserved for expansion during the course of software updates	
°C	Temperature measurement ² with Pt100/Pt1000	V - COM
IZ	Measurement of current at clamp with current clamp sensor	V - COM

Key

- Alternative = alternative measurement (equivalent leakage current measurement)
- Differential = differential current measurement
- Direct = direct measurement
- LN(TS) = short-circuited conductors L and N of test socket
- P1 = measurement with test probe P1
- P1-P2 = 2-pole measurement with test probe P1 & P2
- PE-P1 = measurement between PE and test probe P1
- PE(TS) = protective conductor of test socket
- PE(Mains) = protective conductor of mains terminal

Switch Setting	Standard	Measurement Type, Connection Type
Automated test sequences, rotary switch level: orange		
Preconfigured (freely configurable) test sequences – Delivery Status		
A1	VDE 0701-0702	Passive measuring method, test socket
A2	VDE 0701-0702	Active measurement type, test socket
A3	VDE 0701-0702-IT	Parameters configuration for EDP (active)
A4	IEC 62353 (VDE 0751)	Passive measurement type
A5	IEC 62353 (VDE 0751)	Active measurement type
A6	IEC 60974-4	Connection type: test socket
A7	IEC 60974-4	Connection type: AT16-DI/AT32-DI
A8	VDE 0701-0702	VDE 0701-0702, measurement type Extension Cord test (RPE, RISO), EL1/VL2E/AT3-III-E adapter
AUTO	VDE 0701-0702	Active measurement type, test socket

Overview of Differences in Features

SECUTEST...	Feature	BASE	PRO	PRO BT comfort	—
SECULIFE...		—	ST BASE	—	ST BASE25
Touch screen / keyboard	E01		•	•	•
10 A RPE test current	G01		•	•	
25 A RPE test current	G02				•
2 nd test probe	H01		•	•	•
Voltage meas. inputs*	I01		•	•	•
SECUTEST DB+	KB01		•	•	•
SECUTEST DB comfort	KD01			•	•
Bluetooth®	M01			•	
Antimicrobial housing	—		ST BASE		•

* for voltage measurements or connecting current clamp sensors or AT3 adapter as well as for temperature measurement via RTD

Display with Selectable Language

The display panel consists of a backlit, color multi-display at which menus, setting options, measurement results, instructions and error messages, as well schematic and wiring diagrams appear.

The display and user prompting can be set to the desired language depending on the country in which the test instrument is used.

Data Entry

Data can be entered, for example, via a barcode reader connected to the USB port, a RFID scanner, a USB keyboard, or via the softkey keyboard when it appears at the display.

The touch screen of **SECUTEST PRO** (or devices with Feature E01) and **SECULIFE ST BASE(25)** allows for the convenient entry of data and comments while menu control is still based on softkeys.

¹ 10 A/25 A-R_{PE} measurements are only possible with line voltages of 115/230 V and line frequencies of 50/60 Hz.

² Voltage measurement inputs only with **SECUTEST PRO** (or device with Feature I01) and **SECULIFE ST BASE(25)**

³ Terminal for 2nd test probe for 2-pole measurement only with **SECUTEST PRO** (or device with Feature H01) and **SECULIFE ST BASE(25)**

⁴ Measurement of time to trip not possible in IT systems

⁵ No checking for reversed polarity takes place when the EL1 adapter is used.

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Creating a Database

A complete test structure with data regarding customers, buildings*, floors*, rooms* and test objects can be created in the test instrument. This structure makes it possible to assign single measurements or test sequences to devices under test belonging to various customers. Manual single measurements can be grouped together into a so-called "manual sequence".

The **SECUTEST PRO** and **SECULIFE ST BASE(25)** test instruments and those instruments with database expansion (Feature KB01) enable the user to prepare a test structure by means of the **IZYTRONIQ** software at the PC for subsequent transmission to the test instrument.

* only with **SECUTEST PRO** or with database expansion (Feature KB01) and **SECULIFE ST BASE(25)**

Data Interfaces

Structures set up in, and measurement data saved to the test instrument can be imported to **IZYTRONIQ** report generating software via the USB slave port. Data can then be archived at the PC, comments can be added with the software and reports can be generated.

The following input and output devices can be connected to the two integrated USB master ports:

- An external keyboard and a barcode or RFID reader,
- USB stick for data backup, import, export and reporting
- A printer

Software Update

The test instrument can always be kept current thanks to firmware which can be updated via the USB slave port.

Report Generating Functions

All of the values required for approval reports or device logbooks for electrical equipment (e.g. per ZVEH) can be measured with this instrument. The measured data can be documented and archived thanks to the measurement and test report that can be printed with a thermal printer connected to the USB port, or stored to a PC.

Automatic Detection of Measuring Point Changes

During protective conductor measurement, the test instrument recognizes whether or not the test probe is in contact with the protective conductor, which is indicated by means of two different acoustic signals. This function is very useful where several protective conductor connections need to be tested.

Mains Connection Analysis

Line voltage and frequency are measured and compared with the data specified in the setup menu. Momentary voltage or nominal voltage in accordance with the standard is required, for instance in order to extrapolate measured values for the leakage current measurement.

Automatic Detection of Mains Connection Errors

The device automatically recognizes mains connection errors if the conditions in the following table have been fulfilled. The user is informed of the type of error, and all measuring functions are disabled in the event of danger.

Type of Connection Error	Message	Condition	Measurements
Voltage at protective conductor PE to finger contact (START/STOP key)	Display at the instrument	Press START/STOP button $U > 25 \text{ V}$ Button \rightarrow PE: $< 1 \text{ M}\Omega$ ²	All measurements disabled

Type of Connection Error	Message	Condition	Measurements
Protective conductor PE & phase conductor L reversed and/or neutral conductor N interrupted		Voltage at PE $> 100 \text{ V}$	Impossible (no supply power)
Line voltage $< 180 \text{ V} / < 90 \text{ V}$ (depending on mains)		$U_{L-N} < 180 \text{ V}$ $U_{L-N} < 90 \text{ V}$	Possible under certain circumstances ¹
Test on IT/TN system	Display at the instrument	Connection $N \rightarrow PE > 20 \text{ k}\Omega$	Possible under certain circumstances

¹ 10 A/25 A-R_{PE} measurements are only possible with line voltages of 115/230 V and line frequencies of 50/60 Hz.

² if the test person is highly insulated, the following error message may appear: „Interference voltage at PE of mains connection“

Analysis of DUT Connection and Condition

Depending on the measurement or how the DUT is connected, the following states are checked and displayed before measurement is begun.

Control Function	Condition
Short-circuit test L–N	Short-circuit / starting current $R \leq 2,5 \Omega$ ² No short-circuit (AC test) $R > 2,5 \Omega$ ²
Open-Circuit Voltage U_0 4.3 V, Short-Circuit Current $I_K < 250 \text{ mA}$	
Short-circuit test N–PE	Short-circuit $R \leq 2 \text{ k}\Omega$ No short-circuit (AC test) $R > 2 \text{ k}\Omega$
Open-Circuit Voltage U_0 230 V, AC, Short-Circuit Current $I_K < 1.5 \text{ mA}$	
On test	On (passive DUT) $R < 250 \text{ k}\Omega$ Off (active DUT) $R > 300 \text{ k}\Omega$
Open-Circuit Voltage U_0 230 V AC, Short-Circuit Current $I_K < 1,5 \text{ mA}$	
Special test	No probe $R > 2 \text{ M}\Omega$ Probe detected $R < 500 \text{ k}\Omega$
Protection class detection (only for country-specific (earth-contact) plug variant) ¹	Protective conductor exists: PC I $R < 1 \Omega$ No protective conductor: PC II $R > 10 \Omega$
Safety shutdown	
Triggered at following residual current value (selectable)	$> 10 \text{ mA} / > 30 \text{ mA}$
Triggered at following residual current values (selectable)	
During leakage current measurement	$> 10 \text{ mA}$
During protective conductor resistance meas.	$> 250 \text{ mA}$
Connection test (only for country-specific (earth-contact) plug variant) ¹	
Checks whether the DUT is connected to the test socket.	
Power line of DUT exists	$R < 1 \Omega$
No power line of DUT	$R > 10 \Omega$
Insulation test	
DUT set up in a well-insulated fashion	$R \geq 500 \text{ k}\Omega$
DUT set up in a poorly insulated fashion	$R < 500 \text{ k}\Omega$
PELine – PETestsocket: Open-Circuit Voltage U_0 500 V DC ³ , $I_K < 2 \text{ mA}$	
Overcurrent protection (shutdown)	
Shutdown in the event of a continuous flow of current via the test socket: Our test instruments SECUTEST BASE(10), PRO and SECULIFE ST BASE(25) allow for the active testing of devices with a nominal current (load current) of up to 16 A. The test socket of the respective test instrument is equipped with 16 A fuses and the switching capacity of the internal relays also amounts to 16 A. Starting currents of up to 30 A are permissible. For devices under test which are expected to feature a starting current of more than 30 A, we strongly recommend the application of a test adapter for higher starting currents: e. g. test adapter of the AT3 series	$I > 16,5 \text{ A}$

¹ applies to M7050 with feature B00, B09

² applies as from version 1.7.0; previous condition $\leq 1.5 \Omega$ or $> 1.5 \Omega$, respectively

³ 50 V DC as from version 2.1.0

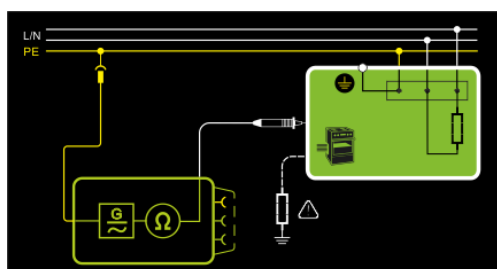
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Backlit Multi-Display Samples

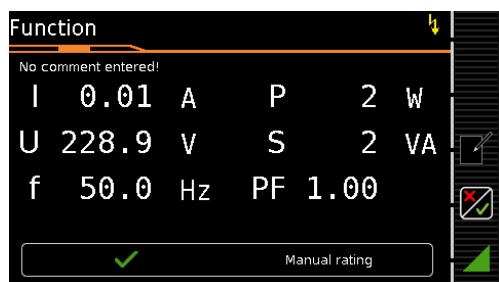
Single Test – Initial Screen with Parameters Display



Help – Schematic and Wiring Diagram



Test Function for Test Step in the Test Sequence



Results of a Test Sequence per VDE 0701-0702



Database Structure – List of Test Results



Scope of Delivery

Standard version (country-specific)

- 1 SECUTEST BASE, SECUTEST PRO or SECULIFE ST BASE(25) test instrument
- 1 Mains power cable
- 1 Test probe, 2 m, not coiled
- 1 USB cable, USB A to USB B, 1.0 m long
- 1 Plug-on alligator clip
- 1 KS17-ONE cable set for voltage measuring inputs (only with SECUTEST PRO or devices with Feature I01) and SECULIFE ST BASE(25)
- 1 Calibration certificate
- 1 Condensed operating instructions D, GB
- Detailed operating instructions available on the Internet at www.gossenmetrawatt.com
- 1 Card with registration key for software

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List of Software Variants depending on Device Type

Article number	Software Variants		
	BUSINESS Starter	BUSINESS Advanced	BUSINESS Professional
Standard Models			
SECUTEST BASE IQ	M705A	•	
SECUTEST PRO IQ	M705C	•	
SECUTEST PRO BT comfort IQ	M705E	•	
SECULIFE ST BASE IQ	M694A	•	
SECULIFE ST BASE25 IQ	M694B	•	
Device Sets			
STARTER PACKAGE SECUTEST BASE IQ	M706A		•
MASTER PACKAGE DB+ IQ	M706D		•
PROFI PACKAGE SECUTEST PRO IQ	M706M		•
COMFORT PACKAGE SECUTEST PRO IQ	M706V		•
WELDING PACKAGE SECUTEST PRO IQ	M706P		•
3-PHASE CURRENT PACKAGE SECUTEST PRO IQ	M706S		•

IZYTRONIQ is a test software that has been newly developed from scratch. It enables the user to visualize and manage the entire testing procedure for all our test instruments and to document it in an audit-proof manner. For the first time, it is thus possible to combine the test and measurement data from a great variety of test instruments and multimeters in one test and generate one report thereof. The intuitive user guidance and modern design provide for quick access to all functions.

The software is available in different sizes and versions for trades, industry and vocational training purposes.

SECUTEST BASE / PRO and SECULIFE ST BASE(25) Test Instruments for Measuring Electrical Safety of Devices

Characteristic Values

Function	Measured Quantity	Display Range / Nominal Range of Use	Resolution	Nominal Voltage U_N	Open-Circuit Voltage U_0	Nom. Current I_N	Short-Circuit Current I_K	Internal Resistance R_I	Reference Resistance R_{REF}	Measuring Uncertainty	Intrinsic Error	Overload Capacity		
												Value	Time	
Tests, 62638 (DIN VDE 0701-0702) / IEC 62353 (VDE 0751)	Protective conductor resistance ¹² RPE	1 ... 999 mΩ	1 mΩ	—	< 24 V AC or DC	—	>200 mA AC or DC >10 A AC ⁵ >35 AAC ¹¹	—	—	±(15% rdg. + 10 D) > 10 D > 10.0 Ω : ±(10% rdg.+ 10 d)	±(10% rdg.+ 10 d) > 10 d	264 V 250 mA 16 A ⁵	Cont.	
		1.00 ... 999 Ω	10 mΩ									>42 AAC ¹¹		
		10.0 ... 30.0 Ω	100 mΩ											
	Insulation resistance ⁹ Riso	10 ... 999 kΩ	1 kΩ	50 ... 500 V DC	1.0 • U_N ... 1.5 • U_N	> 1 mA	> 2 mA	—	—	±(5% rdg.+ 4 d) > 10 d	±(2.5% rdg.+2 d) > 10 d	264 V	Cont.	
		1.00 ... 99.9 MΩ	10 kΩ											
		100 ... 300 MΩ	1 MΩ											
	Leakage current, alternative measurement ² IPE, IB, IG, IA	0.0 ... 99 μA	1 μA	—	50 ... 250 V~ -20/+10%	—	> 1.5 mA	> 150 kΩ	1 kΩ ±10 Ω	±(5% rdg.+ 4 d) > 10 d > 15 mA: ±(10% rdg.+ 8 d)	±(2% rdg.+2 d) > 10 d > 15 mA: ±(5% rdg.+ 4 d)	264 V	Cont.	
		100 ... 999 μA	1 μA											
		1.00 ... 9.99 mA	10 μA											
		10.0 ... 30.0 mA	100 μA											
	Leakage current, direct measurement ³ IPE, IB, IG, IA, IP	Only Ip: 0.0 ... 99.9 μA	100 nA	—	—	—	—	1 kΩ ±10 Ω	1 kΩ	±(5% rdg.+ 4 d) > 10 d	±(2.5% rdg.+2 d) > 10 d	264 V	Cont.	
		0.0 ... 99 μA	1 μA											
100 ... 999 μA		1 μA												
1.00 ... 9.99 mA		10 μA												
Leakage current, differential current measurement ⁴ IPE, IB, IG	0 ... 99 μA	1 μA	—	—	—	—	—	—	±(5% rdg.+ 4 d) > 10 d	±(2.5% rdg.+2 d) > 10 d	264 V	Cont.		
	100 ... 999 μA	1 μA												
	1.00 ... 9.99 mA	10 μA												
	10.0 ... 30.0 mA	100 μA												
Function test at test socket	Line voltage U_{L-N} ¹⁰	100.0 ... 240.0 V~	0.1 V	—	—	—	—	—	—	—	±(2% rdg.+2 d)	264 V	Cont.	
	Load current I_L	0 ... 16.00 A _{RMS}	10 mA	—	—	—	—	—	—	—	±(2% rdg.+2 d)	16 A	Cont.	
	Active power P	0 ... 3700 W	1 W	—	—	—	—	—	—	—	±(5% rdg.+10 d) > 20 d	264 V 20 A	Cont. 10 min	
	Apparent power S	0 ... 4000 VA	1 VA	Calculated value, $U_{L-N} \cdot I_V$								±(5% rdg.+10 d) > 20 d	264 V	Cont.
	Power factor PF with sinusoidal waveform: $\cos\phi$	0.00 ... 1.00	0.01	Calculated value, P / S, display > 10 W								±(10% rdg.+5 d)	264 V	Cont.
	Line frequency	0 ... 420.0 Hz	0.1 HZ	—	—	—	—	—	—	—	—	±(2% rdg.+2 d)	264 V	Cont.
I_A PRCD	Time to trip	0.1 ... 999 ms	0.1 ms	—	—	30 mA	—	—	—	±5 ms	—	264 V	Cont.	
Voltage measurement	Probe voltage (test probe P1 to PE) =, ~ and ⚡	0.0 ... 99.9 V 100 ... 264 V	100 mV 1 V	—	—	—	—	3 MΩ 1 MΩ	—	—	±(2 % v.M.+2 D) ±(2 % rdg. +2 d) > 45 Hz ... 65 Hz ±(2 % rdg.+5 d) > 65 Hz ... 10 kHz ±(5 % rdg. +5 d) > 10 kHz ... 20 kHz	264 V	Cont.	
	Measur. voltage (sockets V-COM ⁶) =, ~ and ⚡	0,0 ... 99.9 V 100 ... 300 V										300 V =, ~ and ⚡		
I_L	Leakage current via AT3-IIIIE adapter Z745S ⁸	0,00 ... 0.99 mA~	0.01 mA	—	—	—	—	—	—	—	±(2 % rdg.+2 d) > 10 D without adapter	253 V	Cont.	
		1,0 ... 9.9 mA~	0.1 mA											
		10 ... 20 mA~	1 mA											
Temp	Temperature with Pt100 sensor	-200.0 ... +850.0 °C	0.1 °C	—	< 20 V~	—	1.1 mA	—	—	—	±(2 % rdg.+1 °C)	10 V	Cont.	
	Temperature with Pt1000 sensor	-150.0 ... +850.0 °C												

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Test Instruments for Measuring Electrical Safety of Devices

Function	Measured Quantity	Display Range / Nominal Range of Use	Resolution	Nominal Voltage U_N	Open-Circuit Voltage U_0	Nom. Current I_N	Short-Circuit Current I_K	Internal Resistance R_I	Reference Resistance R_{REF}	Measuring Uncertainty	Intrinsic Error	Overload Capacity	
												Value	Time
I _{Clamp}	Current via current clamp sensor [1 mV : 1 mA] (V-COM sockets ^{6 7})	1 ... 99 mA ~	1 mA (1 mV)	—	—	—	—	—	—	—	±(2 % rdg.+2 d) > 10 d 20 Hz ... 20 kHz without clamp	253 V	Cont.
		0.1 ... 0.99 A ~	0.01 A (10 mV)										
		1.0 ... 9.9 A ~	0.1 A (100 mV)										
		10 ... 300 A ~	1 A (1 V)										
	Current via current clamp sensor [10 mV : 1 mA] (V-COM sockets ^{6 7})	0.1 ... 9.9 mA ~	0.1 mA (1 mV)										
		10 ... 99 mA ~	1 mA (10 mV)										
		0.10 ... 0.99 A ~	0.01 A (100 mV)										
		1.0 ... 30.0 A ~	0.1 A (1 V)										
	Current via current clamp sensor [100 mV : 1 mA] (V-COM sockets ^{6 7})	0.01 ... 0.99 mA ~	0.01 mA (1 mV)										
		1.0 ... 9.9 mA ~	0.1 mA (10 mV)										
		10 ... 99 mA ~	1 mA (100 mV)										
		0.10 ... 3.00 A ~	0.01 A (1 V)										
	Current via current clamp sensor [1000 mV : 1 mA] (V-COM sockets ^{6 7})	1 ... 99 µA ~	1 µA (1 mV)										
		0.10 ... 0.99 mA ~	0.01 mA (10 mV)										
		1.0 ... 9.9 mA ~	0.1 mA (100 mV)										
		10 ... 300 mA ~	1 mA (1 V)										

- ² Known as equivalent leakage current or equivalent patient leakage current from previous standards
³ Protective conductor current, touch current, device leakage current, patient leakage current
⁴ Protective conductor current, touch current, device leakage current
⁵ Only with feature G01, p. e. SECUTEST BASE10/SECUTEST PRO and SECULIFE ST BASE
⁶ Only with feature I01, p. e. SECUTEST PRO and SECULIFE ST BASE
⁷ Measurement type IPE clamp and IG clamp
⁸ Measurement type IPE AT3 adapter and IG AT3 adapter
⁹ The measuring range upper limit depends on the selected test voltage.
¹⁰ Due to inrush current limiting components, the voltage at the test socket may be lower than the measured line voltage.
¹¹ only with feature G02, p. e. SECULIFE ST BASE25
¹² Details for measurement type PE(mains) – P1 after offset balancing

Key: rdg. = reading (measured value), d = digit(s)

Test Times, Automated Sequence

The test times (parameter „Measurement duration ...“) can be adjusted in the sequence parameter setting menu for each rotary switch position separately. The test times are not tested and calibrated.

Emergency Shutdown During Leakage Current Measurement

As of 10 mA of differential current (can also be set to 30 mA), automatic shutdown ensues within 500 ms. This shutdown is not effected during leakage current measurement with clamp or adapter.

Influencing Quantities and Influence Error

Influencing Quantity / Sphere of Influence	Designation per IEC 61557-16	Influence Error ± ... % rdg.
Change of position	E1	—
Change to test equipment supply voltage	E2	2.5
Temperature fluctuation	E3	Specified influence error valid starting with temperature changes as of 10 K:
0 ... 40 °C		2.5
Amount of current at DUT	E4	2.5
Low frequency magnetic fields	E5	2.5
DUT impedance	E6	2.5
Capacitance during insulation measurement	E7	2.5
Waveform of measured current	E8	2 with capacitive load (for equivalent leakage current)
49 ... 51 Hz		1 (for touch current)
45 ... 100 Hz		2.5 for all other measuring ranges

SECUTEST BASE / PRO and SECULIFE ST BASE(25) Test Instruments for Measuring Electrical Safety of Devices

Reference Ranges

Line voltage	230 V AC $\pm 0.2\%$
Line frequency	50 Hz ± 2 Hz
Waveform	
Sine (deviation between effective and rectified value < 0.5%)	
Ambient temperature	+23 °C ± 2 K
Relative humidity	40 ... 60%
Load resistance	Linear

Nominal Ranges of Use

Nominal line voltage	100 V ... 240 V AC
Nominal line frequency	50 Hz ... 400 Hz
Line voltage waveform	Sinusoidal
Temperature	0 °C ... + 40 °C

Ambient Conditions

Storage temperature	- 20 °C ... + 60 °C
Relative humidity	Max. 75%, no condensation allowed
Elevation	Max. 2000 m
Deployment	Indoors, except within specified ambient conditions

Power Supply

Electrical system	TN, TT or IT
Line voltage	100 V ... 240 V AC
Line frequency	50 Hz ... 400 Hz
Power consumption	200 mA test: approx. 32 VA 10 A test: approx. 105 VA
Mains to test socket (e. g. function test)	Continuous max. 3600 VA, power is conducted through the instrument only, switching capacity ≤ 16 A, ohmic load; for currents > 16 A AC please use the adapter AT3-IIS32 (Z745X)

Electrical Safety

Protection class	I per IEC 61010-1/EN 61010-1/ VDE 0411-1
Nominal voltage	230 V
Test voltage	2.3 kV AC 50 Hz or 3.3 kV DC (mains circuit / test socket to mains PE terminal, USB, finger contact, probe, test socket)
Measuring category	250 V CAT II
Pollution degree	2
Safety shutdown	At DUT differential current of > 10 mA, shutdown time: < 500 ms, can also be set to > 30 mA with following probe current during: – Leakage current meas.: > 10 mA~/< 500 ms – Protective conductor resistance meas.: > 250 mA~/< 1 ms At continuous flow of current I > 16,5 A
Fuse links	Mains fuses: 2 ea. FF 500V/16A Probe fuse: M 250V/250mA SECUTEST BASE10/PRO/ SECULIFE ST BASE: Additionally (Feature G01) 10 A RPE test current 1 ea. FF 500V/16A

Bluetooth® 2.1 + EDR Data Interface
(SECUTEST PRO BT comfort only or feature M01)

USB Data Interface

Type	USB slave for PC connection
Type	2 ea. USB master for data input devices* with HID-Boot interface, for USB stick for data backup, for USB stick for storing reports as bmp files, for printer*

* compatible devices see next page

As of firmware version 1.6.0: In the remote operating mode, the test instrument can be controlled via the USB slave data interface.

Electromagnetic Compatibility

Product standard	DIN EN 61326-1:2013 DIN EN 61326-2-2:2013
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Interference Emission		Class
EN 55011		B
IEC 61000-3-2		B
IEC 61000-3-3		B
Interference immunity	Prüfwert *	Evaluation criterion
EN 61000-4-2	Contact/atmos. - 4 kV/8 kV	B
EN 61000-4-3	10 V/m (80 MHz ... 1 GHz)	A
EN 61000-4-4	Mains connection - 2 kV	B
EN 61000-4-5	Mains connection 1 kV (LN), 2 kV (LPE)	B
EN 61000-4-6	Mains connection 3 V	A
EN 61000-4-8	30 A/m	A
EN 61000-4-11	0%: 1 period 0%: 250/300 periods 40%: 10/12 periods 70%: 25/30 periods	B C C C

Mechanical Design

Display	4.3" color display (9.7 x 5.5 cm), backlit, 480 x 272 pixels at 24 bit color depth, (true color)
Touch screen	with SECUTEST PRO/SECULIFE ST BASE(25) or feature E01 (touch-sensitive user interface)
Dimensions	W x H x D: 295 x 145 x 150 mm Height with handle: 170 mm
Weight	SECUTEST BASE(10)/PRO: Approx. 2.5 kg SECULIFE ST BASE25: approx. 4.0 kg
Protection	Housing: IP 40 Test socket: IP 20 per DIN VDE 0470, part 1/EN 60529, SECULIFE ST BASE(25): Housing with antimicrobial properties in accordance with the JIS-Standard Z 2801:2000

Regulations and standards in accordance with which the test instrument is manufactured and tested:

DIN EN 61010-1:2011 VDE 0411-1:2011	Safety requirements for electrical equipment for measurement, control and laboratory use – General requirements
DIN EN 60529/ VDE 0470, part 1	Test instruments and test procedures Degrees of protection provided by enclosures (IP code)
DIN EN 61326-1 VDE 0843-20-1	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements
DIN EN 61326-2-2 VDE 0843-20-2-2	Part 2-2: Particular requirements – Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems
IEC 61557-16 DIN EN 61557-16 VDE 0413-16	Electrical safety in distribution systems up to 1000 V a.c and 1500 V d.c – Equipment for testing, measuring or monitoring of protective measures - Part 16: Equipment for testing the safety of electrical equipment and medical electrical equipment

SECUTEST BASE / PRO and SECULIFE ST BASE(25) Test Instruments for Measuring Electrical Safety of Devices

Accessories (not included)

Z751A Barcode Reader

For connection to the USB master port at the test instrument, and for reading in barcodes. This makes it possible to conveniently insert the ID numbers of DUTs into single measurements and test sequences.

This device is based upon the concept of an instinctive scanning distance and provides best possible reading performance. Green Spot technology provides a "good-read" projection directly on the code. The device is equipped with a USB port.



Barcode printer Z721E

For connection to the USB master port at the test instrument, and for printing out barcode labels.

Coding: Code39, Code128, EAN13, Text, QR Code*, Micro QR Code, DataMatrix, Aztec

* QR Code is a registered trademark of DENSO WAVE INCORPORATED



Z721S Thermal Printer

For connection to the USB master port at the test instrument, and for printing out test reports.



SCANBASE RFID (Z751E) (RFID read / write)

Compact write/read device with USB interface for programming and reading of 13.56 MHz transponders per ISO 15693.

SECUTEST BASE10/PRO/SECULIFE ST BASE(25) enable the user to populate the RFID tags directly from the test instrument with the help of the programmer.



CEE Adapter (Z745A) for Testing Single and 3-Phase Electrical Devices

The Z745A CEE adapter allows for quick and efficient testing of devices equipped with a CEE plug. The adapter is equipped with the following CEE flush-type socket outlets: 5-pole 16 A, 5-pole 32 A and 3-pole 16 A. Furthermore, the adapter includes five 4 mm safety sockets to which 3-phase devices without permanently attached plug or conventional measurement cables can be connected, e.g. by means of quick clamp terminals (not included). The following tests can be performed on devices with CEE plugs with the help of the adapter:

- Testing of protective conductor continuity
- Insulation resistance, alternatively leakage current (equivalent leakage current)
- Function test (3-pole CEE outlet only)

The Z745A CEE adapter may also be used as an adapter for connecting devices with 3-pole CEE plugs to common earthing contact outlets.

VL2 E (Z745W)

Test adapter with single-phase and 3-phase plug connectors up to CEE 32A



AT16-DI (Z750A) 3-Phase 16 A Differential Current Adapter

Devices which are equipped with a 5-pole, 16 A / 6 h CEE plug can be quickly and efficiently tested with the AT16-DI CEE adapter.

The following tests can be performed on devices with CEE plugs with the help of the AT16-DI CEE adapter:

- Testing of protective conductor continuity
- Insulation resistance, alternatively leakage current (equivalent leakage current)
- Measurement of protective conductor resistance with the following methods: equivalent leakage current / differential current / direct
- Function test

This differential current adapter is also available in a variant with a 5-pole 32 A / 6 h CEE plug with the designation AT32-DI CEE adapter.



SECUTEST BASE / PRO and SECULIFE ST BASE(25) Test Instruments for Measuring Electrical Safety of Devices

Universal carrying pouch F2000 (Z700D)



Outside dimensions:
W x H x D
380 x 310 x
200 mm
(without buckles, handle and carrying strap)

Universal carrying pouch (large) F2020 (Z700F)



Outside dimensions:
W x H x D
430 x 310 x
300 mm
(without buckles, handle and carrying strap)

Universal carrying pouch (small) F2010 (Z700G)



Outside dimensions:
W x H x D
380 x 230 x
270 mm
(without carrying strap)

SECUTEST BASE / PRO and SECULIFE ST BASE(25) Test Instruments for Measuring Electrical Safety of Devices

Order Information

SECUTEST BASE, SECUTEST PRO, SECULIFE ST BASE and SECULIFE ST BASE25 Standard Models

Standard Model	Article Number	Features
SECUTEST BASE IQ	M705A	Schuko variant (test socket and mains plug), selectable user interface language (default setting: German), protective conductor test current: 200 mA, (features differing from 00: AA01 V01)
SECUTEST PRO IQ	M705C	same design as M705A, additionally with 10 A RPE test current, with touch screen, voltage measuring inputs, sockets für 2 nd test probe and database expansion DB+ (features differing from 00: AA03 E01 G01 H01 I01 KB01 V01)
SECUTEST PRO BT comfort IQ	M705E	same design as M705C, additionally with Bluetooth interface and database comfort (features differing from 00: AA03 E01 G01 H01 I01 KB01 KD01 M01 V01)

Scope of Delivery for each tester: Mains power cable, test probe, USB cable, Plug-on alligator clip, printed condensed operating instructions in German, complete operating instructions (for download from the Internet), **DAkS calibration certificate** in D-GB-F, card with registration key for PC Data base and Report software **IZYTRONIQ BUSINESS Starter** (scope of supply for download from the Internet)

Order Information on Device Kits

Type	Designation								Article Number
Starter Package SECUTEST BASE IQ	Scope of delivery see below including IZYTRONIQ BUSINESS ADVANCED								M706A
Master Package DB+ IQ	Scope of delivery see below including IZYTRONIQ BUSINESS PROFESSIONAL								M706D
Profi Package SECUTEST PRO IQ	Scope of delivery see below including IZYTRONIQ BUSINESS PROFESSIONAL								M706M
Comfort Package SECUTEST PRO IQ	Scope of delivery see below including IZYTRONIQ BUSINESS PROFESSIONAL								M706V
Welding Package SECUTEST PRO IQ	Scope of delivery see below including IZYTRONIQ BUSINESS PROFESSIONAL								M706P
3-PHASE CURRENT PACKAGE SECUTEST PRO IQ	Scope of delivery see below including IZYTRONIQ BUSINESS PROFESSIONAL								M706S
Accessories	For use in combination with the following testing packages:	Starter Package	Master Pack. DB+	Profi Package	COM-FORT PACKAGE	Welding Package	3-PHASE CURRENT Package		
SECUTEST BASE IQ		■							
SECUTEST BASE10* IQ			■						
SECUTEST PRO IQ				■		■	■		
SECUTEST PRO BT comfort IQ					■				
SORTIMO L-BOXX	Plastic system case	■	■	■	■	2 x ■	2 x ■	Z503D	
Foam SORTIMO L-BOXX Secutest4	Foam insert for SORTIMO L-BOXX with compartment for SECUTEST BASE(10) or PRO	■	■	■	■	■	■	Z701D	
FOAM SORTIMO L-BOXX-Adapter	Foam insert for SORTIMO L-BOXX with compartment for adapter					■		Z701E	
EL1	Adapter for the testing of single-phase extension cables	■	■	■	■	□	□	Z723A	
Brush Probe	Contact brush	■	□	□	□	□	□	Z745G	
SECULOAD-N	Test adapter in combination with SECUTEST... for testing welding units per DIN EN 60974-4:2007.	□	□	□	□	■	□	Z745R	
Adapter AT16-DI	3-Phase 16 A Current Adapter with Residual Current Logging	□	□	□	□	■	□	Z750A	
SK2	Probe cable with test probe and 2 m probe cable (not coiled)	□	□	■	■	□	□	Z745D	
SK5	Probe with probe tip and 5 m probe cable (not coiled) for protective conductor measurement,	□	□	□	□	□	■	Z7450	
Adapter cable CEE16/CEE32	Adapter cable CEE 16 A to CEE 32 A	□	□	□	□	■	□	Z750F	
Barcode scanner	Barcode scanner for USB connection	□	■	■	■	□	□	Z751A	
Thermal printer	Thermal printer for printing out test reports; including manual on CD, Lithium battery, power supply adapter, mains cable, 1 role of thermal paper	□	□	□	□	□	■	Z721S	

Key: ■ included □ optional

* Database expansion DB+ included

SECUTEST BASE / PRO and SECULIFE ST BASE(25) Test Instruments for Measuring Electrical Safety of Devices

SECUTEST BASE/PRO, SECULIFE ST BASE(25) (List of Order Features)

Device Variants	Article Number basic instrument	Article number/ Feature	SECUTEST BASE (M7050 AA01 E00 G00 H00 I00 J00 KB00 M00)	SECUTEST BASE10 (M7050 AA02 E00 G01 H00 I00 J00 KB00 M00)	SECUTEST PRO (M7050 AA03 E01 G01 H01 I01 J00 KB01 M00)	SECULIFE ST BASE (M7050 A01 AA11 E01 G01 H01 I01 J00 KB01 KC00 M00)	SECULIFE ST BASE 25 (M7050 A01 AA12 E01 G02 H01 I01 J00 KB01 KD01 M00)
			M7050				
Connections – plug for mains power supply and test socket is country-specific in each case							
	Germany with detection of terminals and safety classes	B00	–	–	–	–	–
	UK	B01	–	–	–	–	–
	FR/CZ/PL	B03	–	–	–	–	–
	China	B04	–	–	–	–	–
	USA	B05	–	–	–	–	–
	AUS	B06	–	–	–	–	–
	DK	B07	–	–	–	–	–
	IT	B08	–	–	–	–	–
	CH with detection of terminals and safety classes	B09	–	–	–	–	–
User interface language (preset language upon delivery, can be subsequently changed to any of the other languages listed below)							
	German	C00	–	–	–	–	–
	English	C01	–	–	–	–	–
	French	C02	–	–	–	–	–
	Italian	C03	–	–	–	–	–
	Spanish	C04	–	–	–	–	–
	Czech	C05	–	–	–	–	–
	Dutch	C06	–	–	–	–	–
	Polish	C07	–	–	–	–	–
Data entry via touchscreen							
	without	E00	✓	✓			
	with	E01			✓	✓	✓
R-PE test current for protective conductor measurement							
	200 mA	G00	✓				
	200 mA and 10 A ¹⁾ (not in combination with G02)	G01		✓	✓	✓	
	200 mA and 25 A	G02					✓
Connection for 2nd test probe							
	without	H00	✓	✓			
	with	H01			✓	✓	✓
DVM function (digital voltmeter) with 2 additional measurement inputs, COM–V							
	without	I00	✓	✓			
	with	I01			✓	✓	✓
Connection for application parts							
	without	J00	✓	✓	✓	✓	✓
	with	J01					
Additional test sequences							
	without	KA00	✓	✓	✓	✓	✓
	IEC 60601	KA01	285,-	285,-	285,-	285,-	285,-
Database expansion							
	without	KB00	✓	✓			
	with (corresponds to Z853R – SECUTEST DB+)	KB01	535,-	535,-	✓	✓	✓
Database Comfort							
	without	KD00					
	with (corresponds to Z853S – SECUTEST DB COMFORT)	KD01	450,-	450,-	450,-	450,-	✓
Bluetooth							
	without	M00	✓	✓	✓	✓	✓
	with	M01	90,-	90,-	90,-	90,-	90,-
DAkKS calibration certificate (language combinations)							
	D-GB-F	P00	–	–	–	–	–
	D-GB-PL	P01	–	–	–	–	–
	D-GB-IT	P02	–	–	–	–	–
DAkKS calibration certificate (recalibration)							
			235,-	235,-	235,-	235,-	235,-

Key: ✓ preset

¹⁾ 10 A/25 A-R_{PE} measurements are only possible with line voltages of 115 V/230 V and line frequencies of 50 Hz/60 Hz.

Sample order SECUTEST BASE10 with English user interface:
M7050 AA02 C01 G01 (highlighted features (in this case boldface, with gray background in the table) belong to the fixed basic equipment of SECUTEST BASE10, the other features can be selected as desired)

AA02: Device variant SECUTEST BASE10; C01: user interface, keyboard layout and test sequences in English; G01: R-PE test current for protective conductor measurement: 200 mA and 10 A

SECUTEST BASE / PRO and SECULIFE ST BASE(25) Test Instruments for Measuring Electrical Safety of Devices

Order Information for Accessories

Designation	Type	Article number
Mains power cable		
Cable set for connecting test instruments to the mains without using an earthing contact outlet, and for connecting DUTs. Consists of coupling socket with 3 permanently connected cables, 3 measurement cables, 3 plug-on pick-up clips and 2 plug-on test probes.	KS13	GTY3624065P01
Adapter for testing 3-phase current consumers		
Adapter for connecting DUTs: 3-pole 16 A, 5-pole 16 A + 32 A, 5 ea. 4 mm socket – For all tests without line voltage at single and 3-phase electrical devices – for differential current measurements (direct or differential current method)	CEE Adapter	Z745A
16 A / 32 A 3-phase current adapter (test case) – For all tests without line voltage at single and 3-phase electrical devices – For tests at single and 3-phase extension cords – For differential current measurements (direct method) – für leakage current measurements in accordance with differential current method ¹	AT3-III-E ^D	Z745S
Test adapter for tests on devices with CEE16 and CEE32 connections (load rating of max 20 A)	AT3-IIS ^{D 1}	Z745T
same as AT3-II-S, however, with a load rating of 32 A	AT3-II S32 ^{D 1}	Z745X
3-phase 16 A differential current adapter	AT16-DI	Z750A
3-phase 32 A differential current adapter	AT32-DI	Z750B
Test adapter with single and 3-phase plug connectors up to CEE 32A – For all tests without line voltage at single and 3-phase electrical devices – For tests at single and 3-phase extension cords	VL2E	Z745W
Adapter cable CEE 16 A 5-pin plug red on CEE 32 A 5-pin coupling red, 0.5 m, 5 x 1.5 mm ²	Adapter cable CEE16/CEE32	Z750F
Adapter for testing single-phase extension cables		
Adapter for testing single-phase extension cables including earth contact and inlet plug inserts	EL1	Z723A
Plug insert for using adapter EL1 in Switzerland	PRO-CH	GTZ3225000R0001
Adapter for testing welding units		
Test adapter in combination with SECUTEST... for testing welding units per DIN EN 60974-4:2007. The peak-value rectifier in the SECULOAD-N uses the 1N4007 rectifier diode recommended in the standard. This is a mains rectifier diode which, due to its design, is only suitable for voltage sources with low cycle rates within the range of the line frequency, or voltage sources with conventional transformer. Includes 4 measurement cables and 2 alligator clips.	SECULOAD-N	Z745R

Designation	Type	Article number
Calibration adapter		
Calibration adapter for test instruments per DIN VDE 0701-0702/IEC 62353 (VDE 0751) (max. 200 mA) cannot be used for 10 A protective conductor test current	SECU-cal 10	Z715A
Probe cable		
Probe cable with test probe and 2 m probe cable (not coiled), 300 V CAT II 16 A	SK2	Z745D
Probe cable with test probe and 2 m probe cable (coiled), 300 V CAT II 16 A	SK2W	Z745N
5 m probe cable for protective conductor measurement, 300 V CAT II 16 A	SK5	Z745O
Brush probe	Z745G	Z745G
Multiple probe connector for connecting 5 • 4 mm and 5 • 2 mm test probes to measure multiple touchable housing parts or application parts.	SV5	Z745J
Cable set (1 pair of measuring cables) 1.2 m, with VDE-GS sign 1000 V/CAT III 1 A, 600 V/CAT IV 1 A, 1000 V/CAT II 16 A*	KS17-2	GTY3620034P0002
2 each in plastic bag, diameter 4 mm, length 1.0 m, 1000 V CAT III, 19 A, blue	Cable set blue	Z746A
2 each in plastic bag, diameter 4 mm, length 1.0 m, 1000 V CAT III, 19 A, black/red	Cable set bw/rd	Z746B
Clip-on current sensor for SECUTEST PRO/SECULIFE ST BASE(25)		
Clip-on current sensor, can be set to 1 mA to 15 A or 1 A to 150 A, frequency range: 45... 65 ...500 Hz, 1 mV/mA and 1 mV/A	WZ12C ^{D)}	Z219C
Leakage current clamp 0.1 mA ... 25 mA, 100 mV/mA	SECUTEST CLIP ^{D)}	Z745H
Temperature sensors for SECUTEST PRO/SECULIFE ST BASE(25)		
Pt100 temperature sensor for surface and immersion measurement, –40 to +500 °C	Z3409	GTZ3409000R0001
Pt1000 temperature sensor for measurement in gases and liquids, –50 ... +220 °C	TF220	Z102A
Pt100 oven sensor, Pt100, –50 ... +550 °C	TF550	GTZ3408000R0001
Sounding pipe oil temperature sensor, Pt1000 class B, –50...+500 °C, sensor 3 mm dia. x 810 mm length	TF400CAR	Z102C
Pouches and Cases		
Carrying pouch for SECUTEST BASE(10)/PRO/SECULIFE ST BASE	F2000 ^D	Z700D
Carrying pouch big for tester sets	F2020	Z700F
Universal carrying pouch with flexible divider and display protection for SECUTEST BASE(10)/PRO/SECULIFE ST BASE	F2010	Z700G
Plastic system case	SORTIMO L-BOXX	Z503D
Foam insert for SORTIMO L-BOXX with divider for SECUTEST BASE(10)/PRO/SECULIFE ST BASE	Foam SORTIMO L-BOXX Secutest4	Z701D
Foam insert for SORTIMO L-BOXX GM with divider for adapters	Foam SORTIMO L-BOXX Adapter	Z701E

SECUTEST BASE / PRO and SECULIFE ST BASE(25)

Test Instruments for Measuring Electrical Safety of Devices

Designation	Type	Article number
Data Storage		
Database expansion for SECUTEST BASE(10) : data import, sequence import, Remote	SECUTEST DB+	Z853R
Database extension „comfort“ for SECUTEST BASE(10)/PRO/SECULIFE ST BASE(25) Entry option for test interval and medical device, shifting of test objects, Touch Edit, Quick Edit, sending of test result (to interface), Autostore		
Please indicate the SECUTEST serial number for placing an order.	SECUTEST DB comfort	Z853S
Report Generating Accessories		
RFID-System		
RFID read/write for USB connection (frequency: 13.56 MHz)	SCANBASE RFID	Z751E
RFID tags per ISO 15693, dia. approx. 22 mm, self-adhesive, 500 pcs.	Z751R	Z751R
RFID tags per ISO 15693, dia. approx. 30 mm, thickness 2 – 3 mm with 3 – 4 mm hole 500 pcs.	Z751S	Z751S
RFID tags per ISO 15693, pigeon ring, dia. approx. 7.5 mm, 250 pcs.	Z751T	Z751T
Barcode reader		
Barcode scanner for USB connection	Z751A	Z751A
Barcode printer		
Barcode and label printer including software, for USB connection to the PC or test instrument SECUTEST BASE(10)	Z721D	Z721D
Label set for Z721D barcode and label printer (quantity x width: 3 x 24, 1 x 18, 1 x 9 mm, length: 8 m each)	Z722D	Z722D
Label set for Z721D barcode and label printer (qty. x width: 5 x 18 mm, 8 m long each)	Z722E	Z722E
Thermal printer		
Thermal printer for printing out test reports; incl. manual on CD, lithium battery, power supply adapter, mains cable, USB cable, 1 role of thermal paper	Z721S	Z721S
Thermo paper for Z721S; 10 roll of thermal paper, Ø 12/50mm, 30 m x 112 mm, coating outside	Z722S	Z722S
See also separate ID systems data sheet regarding RFID scanners, barcode scanners and printers.		

^D data sheet available

¹ only with SECUTEST PRO (Feature I01) or SECULIFE ST BASE

For additional information regarding accessories please refer to

- Measuring Instruments and Testers catalog
- www.gossenmetrawatt.com

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