

# 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  
18/5.18

- 8 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.



### Additional Functions SECUTEST PRO

- **Remote control** via PC software possible
- **Additional database elements** for property, building, floor, room for a better structuring of data and additional fields for department and cost center
- **Multi-print** – read-out of all test reports which are available for a device under test with 1 finger tip (at a connected Z721S thermal printer)
- Design **user-created report templates** with „ReportDesigner“ software (free available from myGMC)
- **RFID transponder**, read/write (Z751R,S,T), with SCANBASE RFID Z751E (UID or memory depending on how the reader is programmed)
- XML **data export** to a USB stick
- **IZYTRONIQ** or USB stick **data import** of all important data into the tester
- Design **user-created sequences** with “IZYTRONIQ” software

### Added Feature SECULIFE ST BASE(25)

**SECULIFE ST BASE** corresponds to the range of functions offered by **SECUTEST PRO**, but is additionally endowed with antimicrobial properties. This is to curb the growth of germs, counteract microbial colonization or kill microorganisms.

**SECULIFE ST BASE25** conforms to **SECULIFE ST BASE**, apart from being capable of testing with a 25 A instead of 10 A test current.

### Standards for the Use of SECUTEST BASE/PRO and SECULIFE ST BASE(25) Test Instruments

	Testing after Repairs / Periodic Testing		
DUTs to be tested in accordance with the following standards	DIN VDE 0701-0702	IEC 62353 DIN EN 62353 (VDE 0751-1)	IEC 60974-4 DIN EN 60974-4 VDE 0544-4
<b>Electric devices: e. g.</b> Work devices Mains operated electronic devices Hand-held electric tools Extension cords Household appliances Data processing devices	•		
<b>Electrical medical devices</b>		•	
<b>Arc welding units</b>	•		•

### 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 <sup>nd</sup> 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

# 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
<b>Single measurements, rotary switch level: green</b>		
RPE	$R_{PE}$ <b>Protective conductor resistance</b> Test current (200 mA) <b>SECUTEST BASE10/PRO:</b> and <b>SECULIFE ST BASE 10 A 1</b> (Feature G01) & <b>SECULIFE ST BASE25: 25 A 1</b> (Feature G02)	PE(TS) - P1 passive PE(TS) - P1 active PE(Mains) - P1 PE(Mains) - P1 Clamp <sup>2</sup> P1 - P2 <sup>3</sup>
	$R_{ISO}$ <b>Insulation resistance</b> $U_{ISO}$ Test voltage	LN(TS) - PE(TS) LN(TS) - P1 P1 - P2 <sup>3</sup> PE(Mains) - P1 PE(TS) - P1 LN(TS) - P1/PE(TS)
IPE	$I_{PE\approx}$ <b>Protective conductor current, RMS value</b>	Direct
	$I_{PE-}$ AC component	Differential
	$I_{PE=}$ DC component	Alternative
	$U_{LN}$ Test voltage	AT3-Adapter <sup>2</sup> Clamp <sup>2</sup>
Ib	$I_{T\approx}$ <b>Touch current, RMS value</b>	Direct
	$I_{T-}$ AC component	Differential
	$I_{T=}$ DC component	Alternative (P1)
	$U_{LN}$ Test voltage	Permanent connection Alternative (P1-P2)
Ig	$I_{E\approx}$ <b>Device leakage current, RMS value</b>	Direct
	$I_{E-}$ AC component	Differential
	$I_{E=}$ DC component	Alternative
	$U_{LN}$ Test voltage	AT3-Adapter <sup>2</sup> Clamp <sup>2</sup>
IA	$I_{A\approx}$ <b>Leakage current from the application part, RMS value</b>	Direct (P1) Alternative (P1)
	$U_A$ Test voltage	Permanent conn. (P1)
IP	$I_{P\approx}$ <b>Patient leakage current, RMS value</b>	Direct (P1)
	$I_{P-}$ AC component	Permanent conn. (P1)
	$I_{P=}$ DC component	
	$U_{LN}$ Test voltage	
U	$U_{\approx}$ <b>Probe voltage, RMS</b>	PE - P1
	$U_{-}$ Alternating voltage component	PE - P1 (with mains*)
	$U_{=}$ Direct voltage component	* polarity preset
	$U_{\approx}$ <b>Measurement Voltage RMS</b> <sup>2</sup>	V - COM
	$U_{-}$ Alternating voltage component <sup>2</sup>	V - COM (with mains)
ta <sup>4</sup>	$t_B$ PRCD time to trip for 30 mA PRCDs	
	$U_{LN}$ Line voltage at the test socket	
P	<b>Function test at the test socket</b>	
	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	
<b>Probe measuring functions</b>		
EL1	Extension cords with adapter: continuity, short-circuit, polarity (wire reversal <sup>5</sup> )	EL1 adapter AT3-III-E adapter VL2E adapter
EXTRA	Reserved for expansion during the course of software updates	
°C	Temperature measurement <sup>2</sup> 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
<b>Automated test sequences, rotary switch level: orange</b>		
<b>Preconfigured (freely configurable) test sequences – Delivery Status</b>		
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

### 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.

### 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)**

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

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

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

<sup>4</sup> Measurement of time to trip not possible in IT systems

<sup>5</sup> No checking for reversed polarity takes place when the EL1 adapter is used.

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

## 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 <b>START/STOP</b> button $U > 25 \text{ V}$ Button $\rightarrow$ PE: $< 1 \text{ M}\Omega$ <sup>2</sup>	All measurements disabled
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 <sup>1</sup>
Test on IT/TN system	Display at the instrument	Connection $N \rightarrow PE > 50 \text{ k}\Omega$	Possible under certain circumstances

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

<sup>2</sup> 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	
<b>Short-circuit test</b>	Short-circuit / starting current	$R \leq 2,5 \Omega$ **
	No short-circuit (AC test)	$R > 2,5 \Omega$ **
Open-Circuit Voltage $U_0$ 4.3 V, Short-Circuit Current $I_K < 250 \text{ mA}$		
<b>On test</b>	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 $I_K < 1,5 \text{ mA}$		
<b>Special test</b>	No probe	$R > 2 \text{ M}\Omega$
	Probe detected	$R < 500 \text{ k}\Omega$
<b>Protection class detection</b> (only for country-specific (earth-contact) plug variant)*		
	Protective conductor exists: PC I	$R < 1 \Omega$
	No protective conductor: PC II	$R > 10 \Omega$
<b>Safety shutdown</b>		
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.	$> 250 \text{ mA}$	
<b>Connection test</b> (only for country-specific (earth-contact) plug variant)*		
Checks whether the DUT is connected to the test socket.		
	Power line of DUT exists	$R < 1 \Omega$
	No power line of DUT	$R > 10 \Omega$
<b>Insulation test</b>		
	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 – PCTestsocket: Open-Circuit Voltage $U_0$ 500 V DC, $I_K < 2 \text{ mA}$		
<b>Overcurrent protection (shutdown)</b>		
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		
	$I > 16,5 \text{ A}$	

\* applies to **M7050** with feature B00, B09 and B10

\*\* applies as from version 1.7.0;

previous condition  $\leq 1,5 \Omega$  or  $> 1,5 \Omega$ , respectively

## Application

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

<b>DIN EN 61010-1:2011</b> <b>VDE 0411-1:2011</b>	Safety requirements for electrical equipment for measurement, control and laboratory use – General requirements
<b>DIN VDE 0404, part 1: 2002</b>	Test and measuring equipment for testing the electrical safety of electrical devices – General requirements
<b>DIN VDE 0404, part 2: 2002</b>	– Equipment for testing after repairs and modifications, or periodic testing
<b>DIN VDE 0404, part 3: 2005</b>	– Equipment for periodic tests and tests prior to commissioning medical electrical devices or systems
<b>DIN EN 60529/</b> <b>VDE 0470, part 1</b>	Test instruments and test procedures Degrees of protection provided by enclosures (IP code)
<b>DIN EN 61326-1</b> <b>VDE 0843-20-1</b>	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements
<b>IEC 61557-16</b>	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 according to IEC 62638 and IEC 62353 (IEC 85/437/CD:2012)

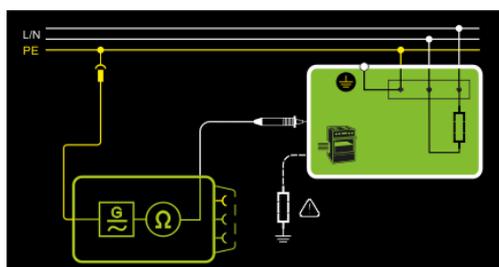
# SECUTEST BASE / PRO and SECULIFE ST BASE(25) Test Instruments for Measuring Electrical Safety of Devices

## 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](http://www.gossenmetrawatt.com)
- 1 Card with registration key for software

IZYTRON .IQ

### List of Software Variants depending on Device Type

IZYTRON .IQ	Article number	Software Variants		
		BUSINESS Starter	BUSINESS Advanced	BUSINESS Professional
<b>Standard Models</b>				
SECUTEST BASE	M705A	•		
SECUTEST PRO	M705C	•		
SECUTEST PRO BT comfort	M705E	•		
SECULIFE ST BASE	M693A	•		
SECULIFE ST BASE25	M693B	•		
<b>Device Sets</b>				
STARTER PACKAGE SECUTEST BASE	M706A		•	
MASTER PACKAGE DB+	M706D			•
PROFI PACKAGE SECUTEST PRO	M706M			•
WELDING PACKAGE SECUTEST PRO	M706P			•
3-PHASE CURRENT PACKAGE SECUTEST PRO	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 <sup>1</sup>	Intrinsic Error <sup>1</sup>	Overload Capacity			
												Value	Time		
Tests, 62638 (DIN VDE 0701-0702) / IEC 62353 (VDE 0751)	Protective conductor resistance <b>RPE</b>	1 ... 999 m $\Omega$	1 m $\Omega$	—	< 24 V AC or DC	—	>200 mA AC or DC >10 A AC <sup>5</sup> >35 AAC <sup>11)</sup>	—	—	$\pm(15\% \text{ rdg.} + 10 \text{ D})$ > 10 D > 10.0 $\Omega$ : $\pm(10\% \text{ rdg.} + 10 \text{ d})$	$\pm(10\% \text{ rdg.} + 10 \text{ d})$ > 10 d	264 V 250 mA 16 A <sup>5</sup>	Cont.		
		1.00 ... 999 $\Omega$	10 m $\Omega$									>42 AAC <sup>11)</sup>	15 s		
		10.0 ... 30.0 $\Omega$	100 m $\Omega$												
	Insulation resistance <sup>9</sup> <b>Riso</b>	10 ... 999 k $\Omega$	1 k $\Omega$	50 ... 500 V DC	1.0 • $U_N$ ... 1.5 • $U_N$	> 1 mA	> 2 mA	—	—	$\pm(5\% \text{ rdg.} + 4 \text{ d})$ > 10 d  $\geq 20 \text{ M}\Omega$ : $\pm(10\% \text{ rdg.} + 8 \text{ d})$	$\pm(2.5\% \text{ rdg.} + 2 \text{ d})$ > 10 d  $\geq 20 \text{ M}\Omega$ : $\pm(5\% \text{ rdg.} + 4 \text{ d})$	264 V	Cont.		
		1.00 ... 9.99 M $\Omega$	10 k $\Omega$												
		100 ... 300 M $\Omega$	1 M $\Omega$												
	Leakage current, alternative measurement <sup>2</sup> <b>IPE, IB, IG, IA</b>	0.0 ... 99 $\mu$ A	1 $\mu$ A	—	50 ... 250 V~ – 20/+10%	—	> 1.5 mA	> 150 k $\Omega$	1 k $\Omega$ $\pm 10 \Omega$	$\pm(5\% \text{ rdg.} + 4 \text{ d})$ > 10 d > 15 mA: $\pm(10\% \text{ rdg.} + 8 \text{ d})$	$\pm(2\% \text{ rdg.} + 2 \text{ d})$ > 10 d > 15 mA: $\pm(5\% \text{ rdg.} + 4 \text{ d})$	264 V	Cont.		
		100 ... 999 $\mu$ A	1 $\mu$ A												
		1.00 ... 9.99 mA	10 $\mu$ A												
		10.0 ... 30.0 mA	100 $\mu$ A												
	Leakage current, direct measurement <sup>3</sup> <b>IPE, IB, IG, IA, IP</b>	Only Ip: 0.0 ... 99.9 $\mu$ A	100 nA	—	—	—	—	1 k $\Omega$ $\pm 10 \Omega$	1 k $\Omega$	$\pm(5\% \text{ rdg.} + 4 \text{ d})$ > 10 d	$\pm(2.5\% \text{ rdg.} + 2 \text{ d})$ > 10 d	264 V	Cont.		
		0.0 ... 99 $\mu$ A	1 $\mu$ A												
100 ... 999 $\mu$ A		1 $\mu$ A													
1.00 ... 9.99 mA		10 $\mu$ A													
Leakage current, differential current measurement <sup>4</sup> <b>IPE, IB, IG</b>	0 ... 99 $\mu$ A	1 $\mu$ A	—	—	—	—	—	—	$\pm(5\% \text{ rdg.} + 4 \text{ d})$ > 10 d	$\pm(2.5\% \text{ rdg.} + 2 \text{ d})$ > 10 d	264 V	Cont.			
	100 ... 999 $\mu$ A	1 $\mu$ A													
	1.00 ... 9.99 mA	10 $\mu$ A													
	10.0 ... 30.0 mA	100 $\mu$ A													
Function test at test socket	Line voltage $U_{L-N}$ <sup>10)</sup>	100.0 ... 240.0 V~	0.1 V	—	—	—	—	—	—	$\pm(2\% \text{ rdg.} + 2 \text{ d})$	264 V	Cont.			
	Load current $I_L$	0 ... 16.00 A <sub>RMS</sub>	10 mA	—	—	—	—	—	—	$\pm(2\% \text{ rdg.} + 2 \text{ d})$	16 A	Cont.			
	Active power P	0 ... 3700 W	1 W	—	—	—	—	—	—	$\pm(5\% \text{ rdg.} + 10 \text{ d})$ > 20 d	264 V 20 A	Cont. 10 min			
	Apparent power S	0 ... 4000 VA	1 VA	Calculated value, $U_{L-N} \cdot I_V$							$\pm(5\% \text{ rdg.} + 10 \text{ d})$ > 20 d				
	Power factor PF with sinusoidal waveform: $\cos\phi$	0.00 ... 1.00	0.01	Calculated value, P / S, display > 10 W							$\pm(10\% \text{ rdg.} + 5 \text{ d})$				
$t_{A \text{ PRCD}}$	Time to trip	0.1 ... 999 ms	0.1 ms	—	—	30 mA	—	—	—	$\pm 5 \text{ ms}$					
V-COM	Probe voltage (test probe P1 to PE) $\overset{\sim}{=}$ , $\sim$ and $\overset{\sim}{\neq}$	0,0 ... 99.9 V	100 mV	—	—	—	—	3 M $\Omega$	—	—	$\pm(2\% \text{ v.M.} + 2 \text{ D})$	300 V $\overset{\sim}{=}$ , $\sim$ and $\overset{\sim}{\neq}$	Cont.		
	Measur. voltage (sockets V-COM <sup>6)</sup> $\overset{\sim}{=}$ , $\sim$ and $\overset{\sim}{\neq}$		1 V					1 M $\Omega$							
	Leakage current via AT3-IIIIE adapter Z745S <sup>6 8)</sup>	0,00 ... 0.99 mA~	0.01 mA	—	—	—	—	—	—	—	$\pm(2\% \text{ rdg.} + 2 \text{ d})$ > 10 D without adapter			253 V	Cont.
		1,0 ... 9.9 mA~	0.1 mA												
		10 ... 20 mA~	1 mA												
Temperature with Pt100 sensor	– 200.0 ... +850.0 °C	0.1 °C	—	< 20 V~	—	1.1 mA	—	—	—	$\pm(2\% \text{ rdg.} + 1 \text{ °C})$	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 <sup>1</sup>	Intrinsic Error <sup>1</sup>	Overload Capacity	
												Value	Time
I <sub>Clamp</sub>	Current via current clamp sensor [1 mV : 1 mA] (V-COM sockets <sup>6 7</sup> )	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 <sup>6 7</sup> )	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 <sup>6 7</sup> )	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 <sup>6 7</sup> )	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)										

- <sup>1</sup> Specified values are only valid for the display at the test instrument. Data transmitted via the USB port may deviate from these values.  
<sup>2</sup> Known as equivalent leakage current or equivalent patient leakage current from previous standards  
<sup>3</sup> Protective conductor current, touch current, device leakage current, patient leakage current  
<sup>4</sup> Protective conductor current, touch current, device leakage current  
<sup>5</sup> Only with SECUTEST BASE10 (Feature AA02), SECUTEST PRO and SECULIFE ST BASE  
<sup>6</sup> Only with SECUTEST PRO (Feature I01) and SECULIFE ST BASE  
<sup>7</sup> Measurement type IPE clamp and IG clamp  
<sup>8</sup> Measurement type IPE AT3 adapter and IG AT3 adapter  
<sup>9</sup> The measuring range upper limit depends on the selected test voltage.  
<sup>10</sup> Due to inrush current limiting components, the voltage at the test socket may be lower than the measured line voltage.  
<sup>11</sup> only with SECULIFE ST BASE25

### 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

**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 100 ms. This shutdown is not effected during leakage current measurement with clamp or adapter.

# 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 $\pm 2$ Hz
Waveform	
Sine (deviation between effective and rectified value < 0.5%)	
Ambient temperature	+23 °C $\pm 2$ 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  $\leq 16$  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: < 100 ms, can also be set to > 30 mA with following probe current during: – Leakage current meas.: > 10 mA~/< 5 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 <b>SECUTEST BASE10/PRO/ SECULIFE ST BASE:</b> Additionally (Feature G01) 1 ea. FF 500V/16A

### Electromagnetic Compatibility

Product standard DIN EN 61326-1

Interference Emission		Class
EN 55011		B
Interference immunity	Test value	Evaluation criterion
EN 61000-4-2	Contact/atmos. – 4 kV/8 kV	A
EN 61000-4-3	3 V/m or 1 V/m	A
EN 61000-4-4	1 kV	B
EN 61000-4-5	1 kV or 2 kV	A
EN 61000-4-6	3 V/m	A
EN 61000-4-11	0.5/1/25 periods	A
	250 periods	C

### 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. Pertinent interface commands are available upon request.

### Bluetooth® 2.1 + EDR Data Interface

**(SECUTEST PRO BT comfort only or feature M01)**

Type	for remote control
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### 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 <b>SECUTEST PRO/SECULIFE ST BASE(25)</b> 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	<b>SECUTEST BASE(10)/PRO:</b> Approx. 2.5 kg <b>SECULIFE ST BASE25:</b> approx. 4.0 kg
Protection	Housing: IP 40 Test socket: IP 20 per DIN VDE 0470, part 1/EN 60529, <b>SECULIFE ST BASE(25):</b> Housing with antimicrobial properties in accordance with the JIS-Standard Z 2801:2000

# 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

## SECU-cal 10 (Z715A) Calibration Adapter

The calibration adapter is used for testing the measuring uncertainty of test instruments in accordance with DIN VDE 0701-0702 / IEC 62353 (VDE 0751). As a rule, these instruments must be tested once each year, as well as for certification in accordance with the ISO 9000 quality standard, as set forth by accident prevention regulation DGUV provision 3 (previously BGV A3).



All limit values for the required tests per DIN VDE, as well as protective conductor resistance, insulation resistance, equivalent leakage current, differential and/or touch as well as housing leakage current, must be tested.

## SECULOAD-N (Z745R) Test Adapter

Test Adapter for testing open-circuit voltage at welding units per IEC / EN 60974.



In combination with the test instrument, the test adapter is used for testing welding units in accordance with the IEC/EN 60974-4 standard. This standard stipulates that peak values for open-circuit voltage may not exceed the limit values, regardless of the utilized settings.

**SECUTEST BASE(10)/PRO/SECULIFE ST BASE(25)** testing instrument includes a test sequence for testing welding instruments with this adapter.

The peak value rectifier of the SECULOAD-N uses rectifier diode 1N 4007 recommended by the standard. This diode is a power rectifier diode and, due to its design principle, only suitable for voltage sources with a low clock rate in the line frequency range or for voltage sources with conventional transformers.

## EL1 (Z723A) Adapter for Testing Single-Phase Extension Cables



## AT3-III-E (Z745S) 3-phase Current Adapter

Test adapter for active and passive testing of Single and 3-Phase Electric Devices and Extension Cables in Combination with SECUTEST... Test Instruments

Operation is simple and safe. The test adapter is connected to a 3-phase 16 A mains outlet, and to the respective test instrument. Testing is performed without reversing polarity at the device under test, either automatically or manually, and is controlled by the test sequence of the utilized test instrument. Safety shutdown occurs if the factory preset residual current value is exceeded.



## SORTIMO L-BOXX (Z503D)

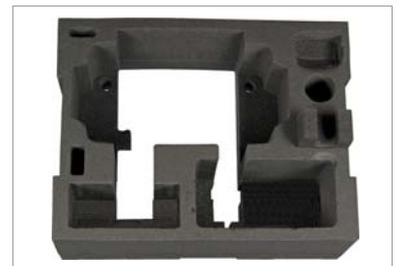
Plastic system case Outside dimensions:

W x H x D  
450 x 255 x 355 mm

Foam insert Z701D for tester and accessories, has to be ordered separately, see below.



## Foam insert for SORTIMO L-BOXX (Z701D)



## F2000 Universal Carrying Pouch (Z700D)

Test instrument, plug inserts, measuring adapters, replacement batteries, recording charts etc. can be stored in a clear-cut fashion and conveniently transported in the F2000 carrying pouch.

Outside dimensions:  
380 x 310 x 200 mm  
(without buckles, handle and 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	M705A	Schuko variant (test socket and mains plug), selectable user interface language (default setting: German), protective conductor test current: 200 mA, calibration certificate in D/GB/F, printed condensed operating instructions in German (features differing from 00: AA01 V01) including IZYTRON.IQ BUSINESS STARTER
SECUTEST PRO	M705C	same design as M705A, additionally with 10 A RPE test current, with touch screen, voltage measuring inputs, sockets für 2 <sup>nd</sup> test probe and database expansion DB+ (features differing from 00: AA03 E01 G01 H01 I01 KB01 V01) including IZYTRON.IQ BUSINESS STARTER
SECUTEST PRO BT comfort	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) including IZYTRON.IQ BUSINESS STARTER
SECULIFE ST BASE	M693A	same design as M705C, additionally with antimicrobial housing (features differing from 00: A01 AA11 E01 G01 H01 I01 KB01 V01) including IZYTRON.IQ BUSINESS STARTER
SECULIFE ST BASE25	M693B	same design as M693A, however with 25 A RPE test current (features differing from 00: A01 AA12 E01 G02 H01 I01 KB01 KD01 V01) including IZYTRON.IQ BUSINESS STARTER

### Order Information on Device Kits

Type	Designation						Article Number
<b>Starter Package SECUTEST BASE</b>	Lieferumfang siehe unten including IZYTRON.IQ BUSINESS ADVANCED						M706A
<b>Master Package DB+</b>	Lieferumfang siehe unten including IZYTRON.IQ BUSINESS PROFESSIONAL						M706D
<b>Profi Package SECUTEST PRO</b>	Lieferumfang siehe unten including IZYTRON.IQ BUSINESS PROFESSIONAL						M706M
<b>Welding Package SECUTEST PRO</b>	Lieferumfang siehe unten including IZYTRON.IQ BUSINESS PROFESSIONAL						M706P
<b>3-PHASE CURRENT PACKAGE SECUTEST PRO</b>	Lieferumfang siehe unten including IZYTRON.IQ BUSINESS PROFESSIONAL						M706S
<b>Accessories</b>	For use in combination with the following testing packages:	<b>Starter Package</b>	<b>Master Pack. DB+</b>	<b>Profi Package</b>	<b>Welding Package</b>	<b>3-PHASE CURRENT Package</b>	
SECUTEST BASE		■					M705A
SECUTEST BASE10*			■				AA02, G01, KB01
SECUTEST PRO				Z03 ■	Z04 ■	Z05 ■	M705C
SORTIMO L-BOXX	Plastic system case	■	■	■	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

## Order Information for Accessories

Designation	Type	Article number
<b>Mains power cable</b>		
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
<b>Adapter for testing 3-phase current consumers</b>		
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 <sup>1</sup>	AT3-III-E <sup>D</sup>	Z745S
Test adapter for tests on devices with CEE16 and CEE32 connections (load rating of max 20 A)	AT3-IIS <sup>D 1</sup>	Z745T
same as AT3-II-S, however, with a load rating of 32 A	AT3-II S32 <sup>D 1</sup>	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 <sup>2</sup>	Adapter cable CEE16/CEE32	Z750F
<b>Adapter for testing single-phase extension cables</b>		
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
<b>Adapter for testing welding units</b>		
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
<b>Calibration adapter</b>		
Calibration adapter for test instruments per DIN VDE 0701-0702/IEC 62353 (VDE 0751) (max. 200 mA) <b>cannot be used for 10 A protective conductor test current</b>	SECU-cal 10	Z715A
<b>Probe cable</b>		
Probe with probe tip and 2 m probe cable (not coiled), 25 A short-circuit operation: „on-time“ 60 s, „resting time“ 120 s for <b>SECULIFE ST BASE 25</b>	SK2-25A	Z746C
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
<b>Clip-on current sensor for SECUTEST PRO/SECULIFE ST BASE(25)</b>		
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 <sup>D)</sup>	Z219C
Leakage current clamp 0.1 mA ... 25 mA, 100 mV/mA	SECUTEST CLIP <sup>D)</sup>	Z745H
<b>Temperature sensors for SECUTEST PRO/SECULIFE ST BASE(25)</b>		
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

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

Designation	Type	Article number
<b>Pouches and Cases</b>		
Carrying pouch for <b>SECUTEST BASE(10)/PRO/SECULIFE ST BASE</b>	F2000 <sup>D</sup>	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
<b>Data Storage</b>		
Database expansion for <b>SECUTEST BASE(10)</b> : data import, sequence import, Remote	SECUTEST DB+	Z853R
Database extension „comfort“ for <b>SECUTEST BASE(10)/PRO/SECULIFE ST BASE(25)</b> 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

Designation	Type	Article number
<b>Report Generating Accessories</b>		
<b>RFID-System</b>		
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
<b>Barcode reader</b>		
Barcode scanner for USB connection	Z751A	Z751A
<b>Barcode printer</b>		
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
<b>Thermal printer</b>		
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.		

<sup>D</sup> data sheet available

<sup>1</sup> 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](http://www.gossenmetrawatt.com)