

## 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 21/8.19

- 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.

### 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**)

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

Switch Set- ting		<b>ing Function,</b> rent/Voltage	Measurement Type Connection Type
Single	measure	ments, rotary switch level: green	
RPE	R <sub>PE</sub>	Protective conductor resistance	PE(TS) - P1 passive
	1	Test current (200 mA) SECUTEST BASE10/PRO: and SECULIFE ST BASE 10 A <sup>1</sup> (Feature G01) & SECULIFE ST BASE25: 25 A <sup>1</sup> ) (Feature G02)	PE(TS) - P1 active PE(Mains) - P1 PE(Mains) - P1 Clamp P1 - P2 <sup>3</sup>
Riso	R <sub>ISO</sub>	Insulation resistance	LN(TS) - PE(TS)
	U <sub>ISO</sub>	Test voltage	LN(TS) - P1 P1 - P2 <sup>3</sup> PE(Mains) - P1 PE(TS) - P1 LN(TS) - P1//PE(TS)
IPE	I <sub>PE</sub> ~	Protective conductor current, RMS value	
	I <sub>PE~</sub>	AC component	Differential
	I <sub>PE=</sub>	DC component	Alternative
	U <sub>LN</sub>	Test voltage	AT3-Adapter <sup>2</sup> Clamp <sup>2</sup>
lr	-	Touch current, RMS value	Direct
U	I <sub>T∼</sub> I <sub>T∼</sub>	AC component	Differential
		DC component	Alternative (P1)
IG IA	I <sub>T=</sub> U <sub>LN</sub>	Test voltage	Permanent connection
		5	Alternative (P1–P2)
lG	I <sub>E∼</sub>	Device leakage current, RMS value	Direct
	I <sub>E~</sub>	AC component	Differential Alternative
	I <sub>E=</sub>	DC component	AT3-Adapter <sup>2</sup>
	$U_{LN}$	Test voltage	Clamp <sup>2</sup>
IA	$I_{A\simeq}$	Leakage current from the application part, RMS value	Direct (P1) Alternative (P1)
	U <sub>A</sub>	Test voltage	Permanent conn. (P1)
lΡ	$I_{P\simeq}$	Patient leakage current, RMS value	
	I <sub>P~</sub>	AC component	Direct (P1)
	I <sub>P=</sub>	DC component	Permanent conn. (P1)
	U <sub>LN</sub>	Test voltage	
U	U	Probe voltage, RMS	PE - P1
	U.	Alternating voltage component	PE - P1 (with mains*)
	U_	Direct voltage component	* polarity preset
		Measurement Voltage RMS <sup>2</sup>	
	U	Alternating voltage component <sup>2</sup>	V – COM
	U_	Direct voltage component <sup>2</sup>	V – COM (with mains
ta 4	t <sub>B</sub>	PRCD time to trip for 30 mA PRCDs	
RISO IPE IB IG IA IQ U U U	U <sub>LN</sub>	Line voltage at the test socket	
Р		n test at the test socket	
	1	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 r		g functions	
	Extension	cords with adapter: r, short-circuit, polarity (wire reversal <sup>5</sup> )	EL1 adapter AT3-IIIE adapter
	Departure	for ownersion during the source of as the	VL2E adapter
EXIKA		for expansion during the course of software	
	°C	Temperature measurement <sup>2</sup> with Pt100/Pt1000	
	IZ	Measurement of current at clamp with current clamp sensorn	V – COM

<sup>1</sup> 10 A/25 A-R<sub>PE</sub> measurements are only possible with line voltages of 115/230 V and line frequencies of 50/60 Hz.
2 Voltage measurement input to only with SECUTECT RPO (or dovice with Easture 101) and

<sup>2</sup> Voltage mesurement inputs only with SECUTEST PRO (or device with Feature IO1) and SECULIFE ST BASE(25)
3 Torrestor for 20<sup>rd</sup> for

<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 act peacifield in IT automatication

<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 E

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

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
Automate	ed test sequences, rot	ary switch level: orange
Preconfig	ured (freely configura	able) 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-IIIE adapter
AUT0	VDE 0701-0702	Active measurement type, test socket

#### **Overview of Differences in Features**

SECUTEST	Feature	BASE	PR0	PRO BT comfort	-
SECULIFE		—	ST BASE	_	ST BASE 25
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*	101		•	•	•
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 PR0** (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.

 $^{\ast}$  only with SECUTEST PR0 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 fin- ger contact ( <b>START</b> / STOP key)		Press <b>START</b> /STOP button U > 25 V Button $\rightarrow$ PE: < 1 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 V	Impossible (no supply power)
Line voltage < 180 V / < 90 V (depending on mains)		U <sub>L-N</sub> < 180 V U <sub>L-N</sub> < 90 V	Possible under cer- tain circumstances <sup>1</sup>
Test on IT/TN system	Display at the instrument	Connection $N \rightarrow PE > 20 \text{ k}\Omega$	Possible under cer- tain circumstances

1 10 A/25 A-R<sub>PE</sub> 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
Short-circuit test L-N Short-circuit / starting	g current	$R \le 2,5 \Omega^2$
No short-circuit	(AC test)	R > 2,5 $\Omega^2$
Open-Circuit Voltage U <sub>0</sub> 4.3 V, Short-Circuit Current I <sub>K</sub> $< 2$	250 mA	
Short-circuit test N–PE Sho	rt-circuit	$R \le 2 k\Omega$
No short-circuit	(AC test)	$R > 2 k\Omega$
Open-Circuit Voltage U $_0$ 230 V, AC, Short-Circuit Current I <sub>K</sub> <	1.5 mA	
On test On (pass	ive DUT)	${ m R}$ < 250 k $\Omega$
Off (act	ive DUT)	${\sf R}$ > 300 k $\Omega$
Open-Circuit Voltage U <sub>0</sub> 230 V AC, Short-Circuit Current $I_K$ <	1,5 mA	
Special test	No probe	$R > 2 M\Omega$
Probe	detected	${\rm R}$ < 500 k $\Omega$
Protection class detection (only for country-specific (earth-	contact) plu	ug variant) <sup>1</sup>
Protective conductor exi	sts: PC I	$R < 1 \ \Omega$
No protective conduc	tor: PC II	$R > 10 \Omega$
Safety shutdown		
Triggered at following residual current value (selectable)		> 10 mA / $> 30$ mA
Triggered at following residual current values (selectable)		
During leakage current meas	urement	> 10 mA
During protective conductor resistance		> 250 mA
Connection test (only for country-specific (earth-contact) p	olug varian	t) <sup>1)</sup>
Checks whether the DUT is connected to the test socket.		
Power line of DL	JT exists	$R < 1 \Omega$
No power lin	e of DUT	$R > 10 \Omega$
Insulation test		
DUT set up in a well-insulated	l fashion	$R \ge 500 \text{ k}\Omega$
DUT set up in a poorly insulated		${\sf R}$ < 500 k $\Omega$
PELine – PETestsocket: Open-Circuit Voltage U <sub>0</sub> 500 V DC <sup>3</sup> ,	$I_K < 2 \text{ mA}$	
Overcurrent protection (shutdown)		
Shutdown in the event of a continuous flow of current via the tes Our test instruments SECUTEST BASE(10), PRO and <b>SECULIFE S</b> <b>BASE(25)</b> allow for the active testing of devices with a nominal cu current) of up to 16 A. The test socket of the respective test instr equipped with 16 A fuses and the switching capacity of the inter also amounts to 16 A. Starting currents of up to 30 A are permis devices under test which are expected to feature a starting current than 30 A, we strongly recommend the application of a test adap higher starting currents: e. g. test adapter of the AT3 series <sup>1)</sup> applies to M7050 with feature BO0, BO9	ST urrent (load rument is nal relays ssible. For ent of more	l > 16.5 A

<sup>1)</sup> applies to M7050 with feature B00, B09

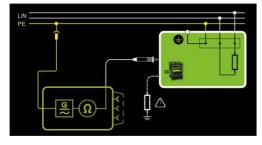
<sup>2)</sup> applies as from version 1.7.0; previous condition  $\le$  1.5  $\Omega$  or > 1.5  $\Omega$ , respectively <sup>3)</sup> 50 V DC as from version 2.1.0

### **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

Fund	ction				ţ	
No c	omment entered!					
	0.01	А	Р	2	W	
U	228.9	۷	S	2	VA	ľ
f	50.0	Ηz	PF	1.00		×
_						
	$\checkmark$		м	anual rating	]	Z

Results of a Test Sequence per VDE 0701-0702

Test						$\bigtriangleup$
VDE0701-0702		24/09/	2013 01:5	8:24 p	om 🗸	$\bigtriangledown$
DUT passed! ShortedCheck L-N					~	Æ.
Vis. Insp. RPE	≤300	mΩ	5	mΩ	~	
RINS PC I	≤300 ≥1.00	MΩ	ر 300 <	MΩ	✓ ✓	
IPE LN	≤3.50 ▽	mA	5	μA	~	$\checkmark$

#### 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 PR0 or devices with Feature I01) and SECULIFE ST BASE(25)
- 1 Calibration certificate
- 1 Condensed operating instructions
- Detailed operating instructions available on the Internet at www.gossenmetrawatt.com
- 1 Card with registration key for software



#### List of Software Variants depending on Device Type

IZYTRON JQ		Soft Varia	ware ants	
	Article number	<b>BUSINESS Starter</b>	<b>BUSINESS Advanced</b>	<b>BUSINESS Professional</b>
Standard Models				
SECUTEST BASE IQ	M705A	•		
SECUTEST PRO IQ	M705C	•		
SECUTEST PRO BT comfort IQ	M705E	٠		
SECULIFE ST BASE IQ	M694A	٠		
SECULIFE ST BASE 25 IQ	M694B	٠		
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 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.

### **Characteristic Values**

Func-	Measured	Display Range / Nominal Range of	Reso-	Nominal Voltage	Open- Circuit	Nom. Current	Short- Circuit	Inter- nal Resis-	Refer- ence Resis-	Measuring	Intrinsic Error	Over Capa	rload acity
tion	Quantity	Use	lution	U <sub>N</sub>	Voltage U <sub>0</sub>	I <sub>N</sub>	Current I <sub>K</sub>	tance R <sub>l</sub>	tance R <sub>REF</sub>	Uncertainty		Value	Time
	Protective conductor	1 999 mΩ	1 mΩ		< 24 V		>200 mA AC or DC > 10 A AC 5			±(15% rdg. + 10 D) > 10 D	±(10% rdg.+ 10 d)	264 V 250 mA	Cont.
(VDE 0751)	resistance <sup>12</sup> <b>R</b> PE	1.00 999 Ω 10.0 27.0 Ω	10 mΩ 100 mΩ	_	AC or DC	_	>35 AAC 11		_	$> 10.0 \Omega$ : $\pm (10\% rdg.+ 10 d)$	> 10 d	16 A <sup>5</sup> >42 AAC 11	15 s
	Insulation	10.0 999 kΩ 1.00 9.99 MΩ	1 kΩ 10 kΩ	50 500	10-11					$\pm (5\% \text{ rdg.} + 4 \text{ d})$ > 10 d	$\pm$ (2.5% rdg.+2 d) > 10 d		
62353	resistance <sup>9</sup> <b>Riso</b>	10.0 99.9 MΩ 100 300 MΩ	100 kΩ 1 MΩ	50 500 V DC	1.0 ● U <sub>N</sub> 1.5 ● U <sub>N</sub>	> 1 mA	> 2 mA		—	$\geq$ 20 MΩ: ±(10% rdg.+ 8 d)	$\geq$ 20 M $\Omega$ : ±(5% rdg.+4 d)	264 V	Cont.
)702) / IEC	Leakage current, alternative measurement <sup>2</sup>	0.0 99 μA 100 999 μA	1 μΑ 1 μΑ		50 250 V~		> 1.5 mA	> 150 kΩ	1 kΩ ±10 Ω		$\pm$ (2% rdg.+2 d) > 10 d > 15 mA:	264 V	Cont.
E 0701-(	IPE, IB, IG, IA	1.00 9.99 mA 10.0 30.0 mA Only lp: 0.0	10 μΑ 100 μΑ		- 20/+10%				10 32	±(10% rdg.+ 8 d)	±(5% rdg.+ 4 d)		
Tests, 62638 (DIN VDE 0701-0702) / IEC 62353 (VDE 0751)	Leakage current, direct measurement <sup>3</sup> IPE, IB, IG, IA, IP	99.9 μA 0.0 99 μA 100 999 μA 1.00 9.99 mA 10.0 30.0 mA	100 nA 1 μA 1 μA 10 μA 100 μA	_	_	—	—	1 kΩ ±10 Ω	1 kΩ	±(5% rdg.+ 4 d) > 10 d	±(2.5% rdg.+2 d) > 10 d	264 V	Cont.
Test	Leakage current, differential current measurement <sup>4</sup> IPE, IB, IG	0 99 μA 100 999 μA 1.00 9.99 mA 10.0 30.0 mA	1 μΑ 1 μΑ 10 μΑ 100 μΑ	_	_	_	_		_	±(5% rdg.+ 4 d) > 10 d	±(2.5% rdg.+2 d) > 10 d	264 V	Cont.
sket	Line voltage U <sub>L-N</sub> <sup>10</sup>	100.0 240.0 V~	0.1 V								±(2% rdg.+2 d)	264 V	Cont.
t soc	Load current $I_L$	0 16.00 A <sub>RMS</sub>	10 mA	—	—	—	—	—	—		±(2% rdg.+2 d)	16 A	Cont.
Function test at test socket	Active power P	0 3700 W	1 W	—	_	—	—	_	—	_	$\pm$ (5% rdg.+10 d) > 20 d	264 V 20 A	Cont. 10 min
ion tes	Apparent power S	0 4000 VA	1 VA			Calo	$\pm$ (5% rdg.+10 d) > 20 d	264 V	Cont.				
Funct	Power factor PF with sinusoidal waveform: cosφ	0.00 1.00	0.01			Calculated	l 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.
t <sub>A</sub> PRCD	Time to trip	0.1 999 ms	0.1 ms	_	_	30 mA	_	_	_	±5 ms	—	264 V	Cont.
urement	Probe voltage (test probe P1 to PE) , $\sim$ and $\overline{\sim}$	0.0 99.9 V 100 264 V	100					3 MΩ			±(2 % v.M.+2 D)	264 V	
Voltage measurement	Measurem. voltage (sockets V–COM <sup>6</sup> ) , ~ and ₹	0,0 99.9 V 100 300 V	100 mV 1 V	—	_		_	1 MΩ	_		$\begin{array}{l} \pm (2 \ \% \ rdg. +2 \ d) \\ > 45 \ Hz \ \ 65 \ Hz \\ \pm (2 \ \% \ rdg. +5 \ d) \\ > 65 \ Hz \ \ 10 \ kHz \\ \pm (5 \ \% \ rdg. +5 \ d) \\ > 10 \ kHz \ \ 20 \ kHz \end{array}$	300 V $$ , $\sim$ and $\overline{}$	Cont.
ΙL	Leakage current via AT3-IIIE adapter Z745S <sup>6</sup> <sup>8</sup>	0,00 0.99 mA ~ 1,0 9.9 mA ~ 10 20 mA ~	0.01 mA 0.1 mA 1 mA								±(2 % rdg.+2 d) > 10 D without adapter	253 V	Cont.
Temp	Temperature with Pt100 sensor Temperature with Pt1000 sensor	- 200.0 + 850.0 °C - 150.0 + 850.0 °C	0.1 °C		< 20 V –		1.1 mA				±(2 % rdg.+1 °C)	10 V	Cont.

Func-	Measured	Display Range / Nominal Range of	Reso-	Nominal Voltage	Open- Circuit	Nom. Current	Short- Circuit	Inter- nal Resis-	Refer- ence Resis-	Measuring	Intrinsic Error		rload acity
tion	Quantity	Use	lution	UN	Voltage U <sub>0</sub>	I <sub>N</sub>	Current I <sub>K</sub>	tance R <sub>I</sub>	tance R <sub>REF</sub>	Uncertainty		Value	Time
	Current via	1 99 mA ~	1 mA (1 mV)										
	current clamp sensor	0.1 0.99 A $\sim$	0.01 A (10 mV)	_	_	_	_	_	_	_			
	[1 mV : 1 mA] (V–COM sockets <sup>6</sup> <sup>7</sup> )	1.0 9.9 A ~	0.1 A (100 mV)										
		10 300 A $\sim$	1 A (1 V)										
	Current via	0.1 9.9 mA $\sim$	0.1 mA (1 mV)							_		253 V	V Cont.
	Current via current clamp sensor [10 mV : 1 mA] (V-COM sockets <sup>6 7</sup> )	10 99 mA $\sim$	1 mA (10 mV)				_	_			±(2 % rdg.+2 d) > 10 d 20 Hz 20 kHz without clamp		
		0.10 $\dots$ 0.99 A $\sim$	0.01 A (100 mV)	_	_	_			_				
		1.0 30.0 A ~	0.1 A (1 V)										
I <sub>Clamp</sub>	Querra da Lia	0.01 0.99 mA $\sim$	0.01 mA (1 mV)										
	Current via current clamp sensor	1.0 9.9 mA $\sim$	0.1 mA (10 mV)										
	[100 mV : 1 mA] (V–COM sockets <sup>6 7</sup> )	10 99 mA $\sim$	1 mA (100 mV)		—	_	_	_	—				
		0.10 3.00 A ~	0.01 A (1 V)										
	Querra da Lia	1 99 µA ~	1 μΑ (1 mV)								-		
	Current via current clamp sensor	0.10 0.99 mA $\sim$	0.01 mA (10 mV)										
	[1000 mV : 1 mA] (V–COM sockets <sup>6 7</sup> )	1.0 9.9 mA $\sim$	0.1 mA (100 mV)	_	_		_	_		—			
		10 300 mA $\sim$	1 mA (1 V)										

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 Protective conductor current, touch current, device leakage current

4

5 Only with feature (01, p. e. SECUTEST BASE 10/SECUTEST PR0 and SECULIFE ST BASE Only with feature 101, p. e. SECUTEST PR0 and SECULIFE ST BASE Measurement type IPE clamp and IG clamp

6

7

8 Measurement type IPE AT3 adapter and IG AT3 adapter

9

<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 feature G02, p. e. SECULIFE ST BASE 25

<sup>12)</sup>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 $\pm \dots \%$ 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 mea- surement	E7	2.5
Waveform of measured current		
49 51 Hz	E8	2 with capacitive load (for equiva- lent leakage current)
45 100 Hz		1 (for touch current)
		2.5 for all other measuring ranges

#### **Reference Ranges**

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

40 ... 60% Linear

#### Nominal Ranges of Use

Nominal line voltage 100 V ... 240 V AC Nominal line frequency50 Hz ... 400 Hz Line voltage waveform Sinusoidal 0 °C ... + 40 °C Temperature

#### **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 Line voltage Line frequency Power consumption

(e.g. function test)

TN. TT or IT 100 V ... 240 V AC 50 Hz ... 400 Hz 200 mA test: approx. 32 VA 10 A test: approx. 105 VA 25 A test: approx. 280 VA

Mains to test socket Continuous max. 3600 VA, power is conducted through the instrument only, switching capacity  $\leq 16$  A, ohmic load; for currents > 16 Å AC please use the adapter AT3-IIS32 (Z745X)

#### **Electrical Safety**

Protection class I per IEC 61010-1/EN 61010-1/ VDE 0411-1 230 V Nominal voltage 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) 250 V CAT II Measuring category Pollution degree 2 At DUT differential current of > 10 mA. Safety shutdown 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/PR0/ SECULIFE ST BASE: Additionally (Feature G01) 10 A RPE test current 1 ea. FF 500V/16A

#### Bluetooth<sup>®</sup> 2.1 + EDR Data Interface (SECUTEST PRO BT comfort only or feature M01)

#### **USB** Data Interface

Туре	USB slave for PC connection
Туре	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 se	ee 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

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

#### 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	SECUTEST BASE(10)/PRO: Approx. 2.5 kg
0	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 antimicro- bial 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, oper- ational 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

### 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.

Codina: 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.





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 5pole, 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



Testing of protective conductor continuity

CEE adapter:

- 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.

#### 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/PR0/SEC-ULIFE ST BASE(25) enable the user to populate the RFID tags directly from the test instrument with the help of the programmer.



#### 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 certifi-



cation 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 accor-



dance 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 seperately, see below.



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



#### Universal carrying pouch F2000 (Z700D)



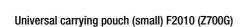
Outside dimensions: W x H x D 380 x 310 x 200 mm (without buckles, handle and carrying strap)



1.1

Sample Contents

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





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

### **Order Information**

#### SECUTEST BASE, SECUTEST PRO, SECULIFE ST BASE and SECULIFE ST BASE 25 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, (features differing from 00: AA01 V01)		
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)		
SECUTEST PRO BT comfort IQ	M705E	5E same design as M705C, additionally with Bluetooth interface and database comfort (features differing from 00: AA03 E01 G01 H01 I01 KB01 KD01 M01 V01)		
tions (for download		ains power cable, test probe, USB cable, Plug-on alligator clip, printed condensed operating instructions in German, complete operating instruc- DAkkS calibration certificate in D-GB-F, card with registration key for PC Data base and Report software IZYTRONIQ BUSINESS Starter (scope et)		

#### Order Information on Device Kits

Designation							Article Numbe
Scope of delivery see below including IZYTRONIQ BUSINESS ADVANCED							M706A
Scope of delivery see below including IZYTRONIQ BUSINESS PROFESSIONAL							M706D
Scope of delivery see below including IZYTRONIQ BUSINESS PROFESSIONAL							M706M
Scope of delivery see below including IZYTRONIQ BUSINESS PROFESSIONAL							M706V
Scope of delivery see below including IZYTRONIQ BUSINESS PROFESSIONAL							M706P
Scope of delivery see below including IZYTRONIQ BUSINESS PROFESSIONAL							M706S
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	
Plastic system case					2 x 🔳	2 x 🔳	Z503D
Foam insert for SORTIMO L-BOXX with compartment for SECUT- EST BASE(10) or PRO							Z701D
Foam insert for SORTIMO L-BOXX with compartment for adapter							Z701E
Adapter for the testing of single-phase extension cables							Z723A
Contact brush							Z745G
Test adapter in combination with SECUTEST for testing welding units per DIN EN 60974-4:2007.							Z745R
3-Phase 16 A Current Adapter with Residual Current Logging							Z750A
Probe cable with test probe and 2 m probe cable (not coiled)							Z745D
Probe with probe tip and 5 m probe cable (not coiled) for protective conductor measurement,							Z7450
Adapter cable CEE 16 A to CEE 32 A							Z750F
Barcode scanner for USB connection							Z751A
Thermal printer for printing out test reports; including manual on CD, Lithium battery, power supply adapter, mains cable, 1 role of							
thermal paper							Z721S
	Scope of delivery see below including IZYTRONIQ BUSINESS ADVANCED Scope of delivery see below including IZYTRONIQ BUSINESS PROFESSIONAL Scope of delivery see below including IZYTRONIQ BUSINESS PROFESSIONAL For use in combination with the following testing packages: Plastic system case Foam insert for SORTIMO L-BOXX with compartment for SECUT- EST BASE(10) or PRO Foam insert for SORTIMO L-BOXX with compartment for adapter Adapter for the testing of single-phase extension cables Contact brush Test adapter in combination with SECUTEST for testing welding units per DIN EN 60974-4:2007. 3-Phase 16 A Current Adapter with Residual Current Logging Probe cable with test probe and 2 m probe cable (not coiled) Probe with probe tip and 5 m probe cable (not coiled) for protective conductor measurement, Adapter cable CEE 16 A to CEE 32 A Barcode scanner for USB connection Thermal printer for printing out test reports; including manual on CD, Lithium battery, power supply adapter, mains cable, 1 role of	Scope of delivery see below including IZYTRONIQ BUSINESS ADVANCED         Scope of delivery see below including IZYTRONIQ BUSINESS PROFESSIONAL         For use in combination with the following testing packages:         Plastic system case         Foam insert for SORTIMO L-BOXX with compartment for SECUT- EST BASE(10) or PRO         Foam insert for SORTIMO L-BOXX with compartment for adapter         Adapter for the testing of single-phase extension cables         Contact brush         Test adapter in combination with SECUTEST for testing welding units per DIN EN 60974-4:2007.         3-Phase 16 A Current Adapter with Residual Current Logging         Probe cable with test probe and 2 m probe cable (not coiled)         Probe with probe tip and 5 m probe cable (not coiled)         Probe with probe tip and 5 m probe cable (not coiled)         Probe with probe tip and 5 m probe cable (not coiled)         Probe scanner for USB connection         Thermal printer for printing out test reports; including manual on CD, Lithium battery, power supply adapter, mains cable, 1 role of	Scope of delivery see below including IZYTRONIQ BUSINESS ADVANCED         Scope of delivery see below including IZYTRONIQ BUSINESS PROFESSIONAL         For use in combination with the following testing packages:       Starter Package         Plastic system case <ul> <li></li></ul>	Scope of delivery see below including IZ/TRONIQ BUSINESS ADVANCED         Scope of delivery see below including IZ/TRONIQ BUSINESS PROFESSIONAL         For use in combination with the following testing packages:       Starter Package       Master Package         For use in combination with the following testing packages:       Starter Package       Profi Package         Plastic system case <ul> <li></li></ul>	Scope of delivery see below including IZYTRONIQ BUSINESS ADVANCED         Scope of delivery see below including IZYTRONIQ BUSINESS PROFESSIONAL         For use in combination with the following testing packages:       Starter Package       Profi Pack. DB+ Package       COM- FORT PACKAGE         Image: Comparison of the second secon	Scope of delivery see below         including IZYTRONIQ BUSINESS PROFESSIONAL         Scope of delivery see below         including IZYTRONIQ BUSINESS PROFESSIONAL         Scope of delivery see below         including IZYTRONIQ BUSINESS PROFESSIONAL         Scope of delivery see below         including IZYTRONIQ BUSINESS PROFESSIONAL         Scope of delivery see below         including IZYTRONIQ BUSINESS PROFESSIONAL         Scope of delivery see below         including IZYTRONIQ BUSINESS PROFESSIONAL         Scope of delivery see below         including IZYTRONIQ BUSINESS PROFESSIONAL         For use in combination with the following testing packages:         Pack.DB+       Profi         Pack.DB+       PackAge         Pack of the seting of single-phase extension cables       Image: State of the seting of single-phase extension cables         Contact brush       Image: State of the seting of single-phase extension cables       Image: State of the seting of single-phase extension cables         Scope of Diversion of the seting of single-phase extension cables       Image: State of the set of the s	Scope of delivery see below         including IZYTRONIO BUSINESS PROFESSIONAL         Scope of delivery see below         including IZYTRONIO BUSINESS PROFESSIONAL         Scope of delivery see below         including IZYTRONIO BUSINESS PROFESSIONAL         Scope of delivery see below         including IZYTRONIO BUSINESS PROFESSIONAL         Scope of delivery see below         including IZYTRONIO BUSINESS PROFESSIONAL         Scope of delivery see below         including IZYTRONIO BUSINESS PROFESSIONAL         For use in combination with the following testing packages:         Starter         Pack       Package         COM-         Package         COM-         Package         COM-         Package         Package<

Database expansion DB+ included

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

IEC 60601       KA01       □         Database expansion       without       KB00       ✓         with (corresponds to Z853R – SECUTEST DB+)       KB01       □       □         Database Comfort       without       KD00       ✓       ✓         with (corresponds to Z853S – SECUTEST DB+)       KD01       □       □         Bluetooth       without       M00       ✓       ✓         bluetooth       without       M01       □       □         DAkkS calibration certificate (language combinations)       □       □       □         D-GB-F       P00       ¬,¬       ¬,¬         D-GB-PL       P01       ¬,¬       ¬,¬         D-GB-IT       P02       ¬,¬       ¬,¬			
Article Number basic instrument         Article number basic         Article number basic           Connections – plug for mains power supply and test socket is country-specific in each case         6            Germany with detection of terminals and safely classes         B00             Germany with detection of terminals and safely classes         B00             China         B04             China         B05             ALIS         B06             ALIS         B06             China         B06             ALIS         B06             User interface language (preset language upon deliver), can be subsequently charget and upon termanesuese listed to termane             User interface language (preset language upon deliver), can be subsequently charget and upon termanesuese listed to termane             User interface language (preset language upon deliver), can be subsequently charget and upon termanesuese listed to termanesument             Edminish         Coon	KB00 M00) SECUTEST PR0 (M7050 AA03 E01 G01 H01 I01 J00 KB01 M00)	KB01 M00) SECULIFE ST BASE (M7050 A01 AA11 E01 G01 H01 101 J00 KB01 KC00 M00)	Seculife St Base 25 (M7050 A01 AA12 E01 G02 H01 I01 J00 KB01 KD01 M00)
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Connections – plug for mains power supply and test socket is country-specific in each case         ····           Brite         Brite         ····           Brite         Brite         ····           Brite         Brite         ····           HK         Brite         ····           Frite         Brite         ····           China         Brite         ····           USA         Brite         ····           ALS         Brite         ····           DK         Brite         ····           T         Brite         ····           OK         Brite         ····           Or         ····         ····         ····           User interface language upon delivery, can be subsequently changed to any of the other languages         ·····           German         Coro         ·····         ·····           German         Coro         ·····         ·····           Spanish         Coro </td <td></td> <td></td> <td></td>			
Germany with detection of terminals and safety classes         B00            LK         B01            LK         B03            China         B04            LKS         B06            AUS         B06            AUS         B06            DK         B07            DK         B07            User interface language (preset language upon deliver), can be subsequently charged to any of the other language.         Interface language (preset language upon deliver), can be subsequently charged to any of the other language.            User interface language (preset language upon deliver), can be subsequently charged to any of the other language.            German         C001             English         C011             Caech         C035             Dutch         C066             Data entry via touchscreen         without         E00            200 mA and 10 A <sup>-1</sup> (not in combination with G02)         G01            200 mA and 25 A         G02	A02 AA03	AA11	AA12
K     B01     ¬¬       FR/CZ/PL     B03     ¬¬       China     B04     ¬¬       USA     B05     ¬¬       AUS     B06     ¬¬       DK     B07     ¬¬       IT     B08     ¬¬       German     C00     ¬¬       English     C01     ¬¬       French     C02     ¬¬       Spanish     C01     ¬¬       Cacch     C02     ¬¬       Italian     C03     ¬¬       Spanish     C04     ¬¬       Cacch     C05     ¬¬       Polish     C07     ¬¬       Cacch     C06     ¬¬       Polish     C07     ¬¬       Polish     C07     ¬¬       R-PE test current for protective conductor measurement     C07       200 mA and 25 A     G01       Connection for application parts     <			
FR/CZ/PL         B03         T         T           China         B04         T         T           USA         B06         T         T           AUS         B06         T         T           DK         B07         T         T           DK         B07         T         T           CH with detection of terminals and safety classes         B09         T         T           User interface language upon delivery, can be subsequently charged to any of the other language. Used to the detection of terminals and safety classes         B09         T         T           User interface language (preset language upon delivery, can be subsequently charged to any of the other language. Used to the detection of terminals and safety classes         B00         T         T           User interface language (preset language upon delivery, can be subsequently charged to any of the other language. Used to the detection of terminals and safety classes         B00         T         T           Italian         C001         T         T         T         T         T           Quich         C007         T         T         T         T         T           Dutch         C007         Cone classes         T         T         T           200 mA and 10 A <sup>11</sup> (not in combina	-,,-	-,,-	-,-
FR/C2/PLB03¬¬¬¬ChinaB04¬¬¬¬USAB06¬¬¬¬AUSB07¬¬¬¬UKB07¬¬¬¬UKB07¬¬¬¬UKB08¬¬¬¬UKB08¬¬¬¬UKB08¬¬¬¬UKB08¬¬¬¬USer interface language upon delivery, can be subsequently changed to any of the other language upon delivery, can be subsequently changed to any of the other language upon delivery, can be subsequently changed to any of the other language upon delivery, can be subsequently changed to any of the other language upon delivery, can be subsequently changed to any of the other language upon delivery, can be subsequently changed to any of the other language upon delivery, can be subsequently changed to any of the other language upon delivery, can be subsequently changed to any of the other language upon delivery, can be subsequently changed to any of the other language upon delivery, can be subsequently changed to any of the other language upon delivery, can be subsequently changed to any of the other language upon delivery, can be subsequently changed to any of the other language upon delivery, can be subsequently changed to any of the other language upon delivery, can be subsequently changed to any of the other language upon delivery, can be subsequently changed to any of the other language upon delivery, can be subsequently changed to any of the other language upon delivery, can be subsequently changed to any of the other language upon delivery, can be subsequently changed to any of the other language upon delivery, can be subsequently changed to any of the other language upon delivery, can be subsequently changed to any of the other language upon delivery,	-,,-	-,,-	-,-
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User interface language (preset language upon delivery, can be subsequently changed to any of the other languages listed the other language subsequently changed to any of the other languages listed the other otheothereore listed the other languages listed the other l			-,-
German         C000             English         C01             French         C02             Spanish         C04             Czech         C05             Dutch         C06             Polish         C07             Polish         C07             Dutch         C06             Polish         C07             Nothout         E00         V         V            Data entry via touchscreen              200 mA and 10 A <sup>10</sup> (not in combination with G02)         G01         V         V           200 mA and 25 A         G02         G02             Connection for 2 <sup>nd</sup> test probe		, ,	,
English         CO1         ¬¬           French         CO2         ¬¬           Italian         CO3         ¬¬           Spanish         CO4         ¬¬           Czech         CO5         ¬¬           Dutch         CO6         ¬¬           Polish         CO7         ¬¬           Data entry via touchscreen         CO7         ¬¬           without         EO0         ✓         ✓           200 mA         GO0         ✓         ✓           200 mA and 10 A <sup>1)</sup> (not in combination with GO2)         GO1         ✓           200 mA and 25 A         GO2         ✓         ✓           Without         HO0         ✓         ✓           Without         Additional measurement inputs, COM-V<		-,,-	-,-
French         CO2            Italian         CO3             Spanish         CO4             Czech         CO5             Dutch         CO6             Polish         CO7             Polish         CO7             Polish         CO7             Polish         CO7             Polish         CO7             Data entry via touchscreen         CO0         ✓         ✓           without         E00         ✓         ✓         ✓           200 mA and 10 A <sup>1</sup> (not in combination with G02)         G01         ✓         ✓           200 mA and 25 A         G02         ✓         ✓         ✓           Without         H00         ✓         ✓         ✓         ✓           without         H00         ✓         ✓         ✓         ✓         ✓           Without         H00         ✓         ✓         ✓         ✓         ✓         ✓         ✓ </td <td></td> <td></td> <td>, _,_</td>			, _,_
Italian         C03             Spanish         C04             Czech         C06             Dutch         C06             Polish         C07             Note         C07             Polish         C07             Data entry via touchscreen              without         E00         ✓             200 mA and 10 Å <sup>1</sup> (not in combination with G02)         G01         ✓            200 mA and 10 Å <sup>1</sup> (not in combination with G02)         G01         ✓            200 mA and 10 Å <sup>1</sup> (not in combination with G02)         G01         ✓            Without         H00         ✓         ✓            Without         H00         ✓         ✓            Without         H00         ✓         ✓         ✓           Without         J00         ✓         ✓         ✓           Without         J00         ✓         ✓         ✓ </td <td></td> <td></td> <td>, _,_</td>			, _,_
Spanish         C04            Czech         C05            Dutch         C06            Polish         C07            without         E00         ✓           without         E00         ✓           without         E01         ✓           200 mA         G00         ✓           200 mA and 10 A <sup>1</sup> (not in combination with G02)         G01         ✓           200 mA and 25 A         G02         ✓           Connection for 2 <sup>no</sup> test probe         ✓         ✓           without         H00         ✓         ✓           without         H01         ✓         ✓           Without         H01         ✓         ✓           Without         J01         ✓         ✓			, _,_
Czech         C05            Dutch         C06             Polish         C07             Data entry via touchscreen              Without         E00             200 mA and 10 A <sup>11</sup> (not in combination with G02)         G01             200 mA and 10 A <sup>11</sup> (not in combination with G02)         G01             200 mA and 25 A         G02              Without         H00               Without         H01                Without         H01			,,
DutchC06PolishC07Data entry via touchscreenwithoutE00withoutE01200 mAG00200 mA and 10 A <sup>10</sup> (not in combination with G02)G01200 mA and 25 AG02Connection for 2 <sup>nd</sup> test probewithoutH00withoutH00withoutH00withoutH00withoutH00withoutH01withoutJ00withoutJ00withoutJ00withoutJ00withoutJ00withoutKA00withoutKA01batabase expansionwithoutKB00with (corresponds to Z853R – SECUTEST DB +)KB01batabase comfortwithoutM000with (corresponds to Z853S – SECUTEST DB COMFORT)M00with (corresponds to Z853S – SECUTEST DB COMFORT)M00batabase comfortwithoutM00with (corresponds to Z853S – SECUTEST DB COMFORT)M00with (corresponds to Z853S – SECUTEST DB COMFORT)M00DAtabase comfortwithout <td< td=""><td></td><td></td><td></td></td<>			
Polish       C07           Data entry via touchscreen       without       E00       ✓         without       E00       ✓       ✓         with       E01       ✓       ✓         R-PE test current for protective conductor measurement       ✓       ✓       ✓         200 mA and 10 A <sup>1</sup> ) (not in combination with G02)       G01       ✓       ✓         200 mA and 25 A       G02       ✓       ✓       ✓         200 mA and 25 A       G02       ✓       ✓       ✓         200 mA and 25 A       G02       ✓       ✓       ✓       ✓         Connection for 2 <sup>nd</sup> test probe       ✓			_,_
Data entry via touchscreen       without       E00       ✓         without       E00       ✓       ✓         R-PE test current for protective conductor measurement       ✓       ✓         200 mA       G00       ✓       ✓         200 mA and 10 A <sup>1)</sup> (not in combination with G02)       G01       ✓       ✓         200 mA and 25 A       G02       ✓       ✓         200 mA and 25 A       G02       ✓       ✓         0 ma and 25 A       G02       ✓       ✓         Without       H00       ✓       ✓       ✓         without       H00       ✓       ✓       ✓         without       H00       ✓       ✓       ✓       ✓         Without       H00       ✓       ✓       ✓       ✓       ✓       ✓       ✓         DVM function (digital voltmeter) with 2 additional measurement inputs, COM-V       Without       Ito ✓       ✓			-,-
without       E00       ✓         with       E01       ✓         200 mA       G00       ✓         200 mA and 10 A <sup>11</sup> (not in combination with G02)       G01       ✓         200 mA and 25 A       G02       ✓         Connection for 2 <sup>ng</sup> test probe       G00       ✓       ✓         without       H00       ✓       ✓         Without       J00       ✓       ✓         Without       J01       ✓       ✓         without       J01       ✓       ✓         Without       J00       ✓       ✓         Without       J01       ✓       ✓         Additional test sequences       ✓       ✓       ✓         Without       KA00       ✓       ✓       ✓         Database comfort       Without       KB00       ✓       ✓         With (corresponds to Z8538 – SECUTEST DB +)       KB	-,,-	-,,-	-,-
with         E01         I           R-PE test current for protective conductor measurement         200 mA         600         ✓           200 mA and 10 A <sup>11</sup> (not in combination with 602)         G01         ✓         ✓           200 mA and 25 A         G02         ✓         ✓         ✓           Connection for 2 <sup>nd</sup> test probe         without         H00         ✓         ✓           without         H00         ✓         ✓         ✓           without         H00         ✓         ✓         ✓           without         H00         ✓         ✓         ✓         ✓           Without         H00         ✓         ✓         ✓         ✓         ✓           DVM function (digital voltmeter) with 2 additional measurement inputs, COM-V         ✓         <			
R-PE test current for protective conductor measurement       G00       ✓         200 mA and 10 A <sup>1)</sup> (not in combination with G02)       G01       ✓         200 mA and 25 A       G02       ✓         Connection for 2 <sup>nd</sup> test probe       G00       ✓         without       H00       ✓       ✓         without       H01       ✓       ✓         DVM function (digital voltmeter) with 2 additional measurement inputs, COM-V       ✓       ✓         without       100       ✓       ✓         without       J00       ✓       ✓         without       J00       ✓       ✓         without       J00       ✓       ✓         without       J00       ✓       ✓         dditional test sequences       ✓       ✓       ✓         without       J00       ✓       ✓       ✓         Additional test sequences       ✓       ✓       ✓       ✓         without       KA00       ✓       ✓       ✓       ✓         Additional test sequences       ✓       ✓       ✓       ✓         without       KA00       ✓       ✓       ✓       ✓         Database expansion <t< td=""><td>v v</td><td></td><td></td></t<>	v v		
200 mA       G00       ✓         200 mA and 10 A <sup>-1</sup> ) (not in combination with G02)       G01       ✓         200 mA and 25 A       G02       ✓         Connection for 2 <sup>nd</sup> test probe       ✓       ✓         without       H00       ✓       ✓         without       H00       ✓       ✓         DVM function (digital voltmeter) with 2 additional measurement inputs, COM–V       ✓       ✓         without       100       ✓       ✓         without       J00       ✓       ✓         without       KA00       ✓       ✓         bc Go601       KA00       ✓       ✓         Database expansion       without       KB00       ✓       ✓         with (corresponds to Z853R – SECUTEST DB +)       KB01       □       □         Database Comfort       without       M00       ✓       ✓         with (corresponds to Z853S – SECUTEST DB COMFORT	V	V V	~
200 mA and 10 A <sup>1)</sup> (not in combination with G02)       G01       ✓         200 mA and 25 A       G02       ✓         Connection for 2 <sup>nd</sup> test probe       M00       ✓       ✓         without       H00       ✓       ✓         DVM function (digital votmeter) with 2 additional measurement inputs, COM–V       ✓       ✓         without       101       ✓       ✓         without       J00       ✓       ✓         without       J00       ✓       ✓         without       J00       ✓       ✓         without       J00       ✓       ✓         Mithout       KA00       ✓       ✓         EC 60601       KA00       ✓       ✓         Database expansion       without       KB00       ✓       ✓         with (corresponds to Z853R – SECUTEST DB+)       KB01       □       □       □         Database Comfort       with (corresponds to Z853S – SECUTEST DB COMFORT)       KD01       □			
200 mA and 25 AG02Connection for 2 <sup>n0</sup> test probewithoutH00✓withoutH01✓DVM function (digital voltmeter) with 2 additional measurement inputs, COM-Vwithout100✓without100✓without101✓Connection for application parts✓withoutJ00✓✓MithoutJ00✓✓withoutJ01✓✓MithoutJ01✓✓bit corresponds to Z853R – SECUTEST DB+)KB01□Database expansionwith (corresponds to Z853R – SECUTEST DB+)KB01□Database ComfortwithoutKD00✓with (corresponds to Z853R – SECUTEST DB COMFORT)KD01□□BluetoothwithoutM01□□DAtabase ComfortwithoutM01□□WithoutC853S – SECUTEST DB COMFORT)KD01□□BluetoothwithoutM01□□D-GB-FP00¬¬¬¬¬¬D-GB-FLP00¬¬¬¬¬¬D-GB-FLP01¬¬¬¬¬¬D-GB-FLP02¬¬¬¬¬¬D-GB-FTP02¬¬¬¬¬¬D-GB-FTP02¬¬¬¬¬¬D-GB-FTP02¬¬¬¬¬¬D-GB-FTP02¬¬¬¬¬¬D-GB-FTP02¬¬ </td <td></td> <td></td> <td></td>			
Connection for 2 <sup>n0</sup> test probe       H00       ✓         without       H00       ✓         without       H01       ✓         DVM function (digital voltmeter) with 2 additional measurement inputs, COM–V       ✓       ✓         without       100       ✓       ✓         without       101       ✓       ✓         without       101       ✓       ✓         without       J00       ✓       ✓         without       J00       ✓       ✓         without       J00       ✓       ✓         Additional test sequences       mithout       J00       ✓         without       KA00       ✓       ✓         Additional test sequences       KK000       ✓       ✓         iEC 60601       KA01       □       □       □         Database expansion       without       KB00       ✓       ✓         with (corresponds to Z853R – SECUTEST DB+)       KB01       □       □         Database Comfort       without       M00       □       □         With (corresponds to Z853S – SECUTEST DB+)       KD01       □       □         Bluetooth       without       M00       □	V V	~ ~	
withoutH00Image: Comparison of the comparison of t			~
with       H01       I         DVM function (digital voltmeter) with 2 additional measurement inputs, COM-V       IO0       I         without       IO0       IO0       I         without       IO1       IO1       I         Connection for application parts       IO0       I       I         without       JO0       I       I       I         Additional test sequences       I       I       I       I         Additional test sequences       I       I       I       I       I         Database expansion       without       KA00       I       <			
DVM function (digital voltmeter) with 2 additional measurement inputs, COM-V       IOO       IOO       IOO         without       IOO       IOO       IOO       IOO         without       IOO       IOO       IOO       IOO       IOO         Connection for application parts       IOO       IOO </td <td>•</td> <td></td> <td></td>	•		
without100✓with101Connection for application parts000✓withoutJ00✓withoutJ01✓Additional test sequenceswithoutKA00✓IEC 60601KA01□Database expansionwithoutwith (corresponds to Z853R – SECUTEST DB+)KB01□Database Comfortwith (corresponds to Z853S – SECUTEST DB+)KD00BluetoothwithoutM00✓with (corresponds to Z853S – SECUTEST DB COMFORT)KD01□Database ComfortwithoutM00✓Database ComfortwithoutM00✓Database Comfortwith (corresponds to Z853S – SECUTEST DB COMFORT)KD01□Database ComfortwithoutM00✓✓Database ComfortwithoutM00✓✓Database ComfortwithoutM00✓✓Database ComfortwithoutM00✓✓Database ComfortwithoutM00✓✓Database ComfortwithoutM00✓✓Database ComfortwithoutM00✓✓Database ComfortwithoutM00✓✓Database ComfortwithoutM00✓✓Database Comfortwith (corresponds to Z853S – SECUTEST DB COMFORT)KD01□Database ComfortwithoutM00✓✓Database ComfortWithoutM	<ul> <li>✓</li> </ul>	<ul> <li></li> <li><td><b>~</b></td></li></ul>	<b>~</b>
with       IO1       IO1         Connection for application parts       IO1       IO1         without       J00       IO1         without       J00       IO1         without       J01       IO1         Additional test sequences       IO1       IO1         without       KA00       IO1       IO1         Database expansion       without       KB00       IO1         with (corresponds to Z853R – SECUTEST DB+)       KB01       IO1         Database Comfort       without       KD00       IO1         with (corresponds to Z853S – SECUTEST DB COMFORT)       KD01       IO1       IO1         Bluetooth       without       M00       IO1       IO1         DAtabase Comfort       with (corresponds to Z853S – SECUTEST DB COMFORT)       KD01       IO1       IO1         Bluetooth       without       M00       IO1       IO1       IO1       IO1       IO1         DAtabase Comfort       without       M00       IO1       IO1       IO1       IO1       IO1       IO1       IO1         Bluetooth       without       M01       IO1       IO1       IO1       IO1       IO1       IO1       IO1       IO1<			
Connection for application parts         Image: connection for application for application parts         Image: connection for application for appl	-		
withoutJ00✓withoutJ01✓Additional test sequences✓withoutKA00✓IEC 60601KA01□Database expansionwithoutKB00✓with (corresponds to Z853R – SECUTEST DB+)KB01□Database ComfortwithoutKD00✓With (corresponds to Z853S – SECUTEST DB COMFORT)KD01□BluetoothwithoutM00✓Database ComfortwithoutM00✓Database ComfortwithoutM00✓Database ComfortwithoutM00✓Database ComfortwithoutM00✓BluetoothwithoutM00✓Database Combinations)□□D-GB-FP00¬,¬D-GB-PLP01¬,¬D-GB-ITP02¬,¬	<ul> <li>✓</li> </ul>	V V	~
with       J01       Instant sequence         Additional test sequences       KA00       Instant sequence         without       KA00       Instant sequence         IEC 60601       KA01       Instant sequence         Database expansion       without       KB00       Instant sequence         with (corresponds to Z853R – SECUTEST DB+)       KB01       Instant sequence         Database Comfort       without       KD00       Instant sequence         With (corresponds to Z853S – SECUTEST DB COMFORT)       KD01       Instant sequence         Bluetooth       without       M00       Instant sequence         DAtkS calibration certificate (language combinations)       Instant sequence       Instant sequence         D-GB-F       P00       -,-       -,-         D-GB-FL       P01       -,-       -,-         D-GB-FIT       P02       -,-       -,-			
Additional test sequences       interference       interference </td <td>V V</td> <td>V V</td> <td><b>~</b></td>	V V	V V	<b>~</b>
without       KA00       ✓         IEC 60601       KA01       □         Database expansion       without       KB00       ✓         with (corresponds to Z853R – SECUTEST DB+)       KB01       □       □         Database Comfort       without       KD00       □       □         With (corresponds to Z853S – SECUTEST DB +)       KD01       □       □         Bluetooth       without       M00       ✓       ✓         DAtkS calibration certificate (language combinations)       □       □       □         D-GB-F       P00       ¬,-       ¬,-       ¬,-         D-GB-PL       P01       ¬,-       ¬,-       ¬,-         D-GB-IT       P02       ¬,-       ¬,-			
IEC 60601         KA01         Image: constraint of the system           Database expansion         without         KB00         ✓         ✓           with (corresponds to Z853R – SECUTEST DB+)         KB01         Image: constraint of the system         Image: consthe system         Image: constraint of the sys			
Database expansion       without       KB00       ✓         with (corresponds to Z853R – SECUTEST DB+)       KB01       □       □         Database Comfort       without       KD00       □       □         with (corresponds to Z853S – SECUTEST DB COMFORT)       KD01       □       □         Bluetooth       without       M00       ✓       ✓         DAkkS calibration certificate (language combinations)       □       □       □         D-GB-F       P00       ¬,-       ¬,-         D-GB-PL       P01       ¬,-       ¬,-         D-GB-IT       P02       ¬,-       ¬,-	V V	V V	<b>v</b>
with (corresponds to Z853R – SECUTEST DB+)       KB01       Image: Comfort without         Database Comfort       without       KD00         with (corresponds to Z853S – SECUTEST DB COMFORT)       KD01       Image: Comfort without         Bluetooth       without       M00       Image: Comfort without         bluetooth       with       M01       Image: Combinations)         D-GB-F       P00       -,-       -,-         D-GB-PL       P01       -,-       -,-         D-GB-IT       P02       -,-       -,-			
Database Comfort     without     KD00       with (corresponds to Z853S – SECUTEST DB COMFORT)     KD01     Image: Complex c	V		
with (corresponds to Z853S – SECUTEST DB COMFORT)       KD01       Image: Comparison of the comparison of t	□ <i>∨</i>	V V	<b>v</b>
Bluetooth         without         M00         ✓           with         M01         □         □           DAkkS calibration certificate (language combinations)         □         □           D-GB-F         P00         -,-         -,-           D-GB-PL         P01         -,-         -,-           D-GB-IT         P02         -,-         -,-			
Bluetooth         without         M00         ✓           with         M01         □         □           DAkkS calibration certificate (language combinations)         □         □           D-GB-F         P00         -,-         -,-           D-GB-PL         P01         -,-         -,-           D-GB-IT         P02         -,-         -,-			<b>v</b>
DAkkS calibration certificate (language combinations)         P00         -,-         -,-           D-GB-F         P00         -,-         -,-         -,-           D-GB-PL         P01         -,-         -,-           D-GB-IT         P02         -,-         -,-	V V	V V	<b>v</b>
D-GB-F         P00         -,-         -,-           D-GB-PL         P01         -,-         -,-           D-GB-IT         P02         -,-         -,-			
D-GB-F         P00         -,-         -,-           D-GB-PL         P01         -,-         -,-           D-GB-TT         P02         -,-         -,-			
D-GB-PL         P01         -,-           D-GB-IT         P02         -,-	-,,-	-,,-	-,-
D-GB-IT P02 -,,-			-,-
			, _,_
DAkkS calibration certificate (recalibration)			, L
Key: V preset			

10 A/25 A-R\_{PE} mesasurements are only possible with line voltages of 115 V/ 230 V and line frequencies of 50 Hz/60 Hz. 17

#### 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

Order Information for Accessories	T	Autor	Designation	Туре	Article number
Designation	Туре	Article number	Calibration adapter Calibration adapter for test instruments per		
			DIN VDE 0701-0702/IEC 62353		
Mains power cable			(VDE 0751) (max. 200 mA) cannot be		
Cable set for connecting test instruments			used for 10 A protective conductor test		
o the mains without using a an earthing contact outlet, and for connecting DUTs.			current	SECU-cal 10	Z715A
Consists of coupling socket with 3 perma-					
nently connected cables, 3 measurement			Probe cable		
cables, 3 plug-on pick-up clips and 2 plug-			Probe cable with test probe and 2 m probe		
on test probes.	KS13	GTY3624065P01	cable (not coiled), 300 V CAT II 16 A	SK2	Z745D
			Probe cable with test probe and 2 m probe		
Adapter for testing 3-phase current con	sumers		cable (coiled), 300 V CAT II 16 A	SK2W	Z745N
Adapter for connecting DUTs:			5 m probe cable for protective conductor		
3-pole 16 A, 5-pole 16 A + 32 A,			measurement, 300 V CAT II 16 A	SK5	Z7450
5 ea. 4 mm socket			Brush probe	Z745G	Z745G
<ul> <li>For all tests without line voltage</li> </ul>			Multiple probe connector for connecting 5		
at single and 3-phase electrical devices			• 4 mm and 5 • 2 mm test probes to mea-		
- for differential current measurements		77 45 4	sure multiple touchable housing parts or		
(direct or differential current method)	CEE Adapter	Z745A	application parts.	SV5	Z745J
6 A / 32 A 3-phase current adapter (test case) - For all tests without line voltage at single			Cable set (1 pair of measuring cables) 1.2 m,		
and 3-phase electrical devices			with VDE-GS sign 1000 V/CAT III 1 A,		
- For tests at single			600 V/CAT IV 1 A, 1000 V/CAT II 16 A*	KS17-2	GTY3620034P0002
and 3-phase extension cords			2 each in plastic bag, diameter 4 mm, length	NOT/-Z	011302003470002
- For differential current measurements			1.0 m, 1000 V CAT III, 19 A, blue	Cable set blue	Z746A
(direct method)			2 each in plastic bag, diameter 4 mm, length		21404
- für leakage current measurements in			1.0 m, 1000 V CAT III, 19 A, black/red	Cable set bw/rd	Z746B
accordance with differential current	5			ouble set bwird	21400
method <sup>1</sup>	AT3-III-E <sup>D</sup>	Z745S	Clip-on current sensor for SECUTEST PR	0/SECULIEE ST BA	SF(25)
est adapter for tests on devices with			Clip-on current sensor, can be set to		02(20)
CEE16 and CEE32 connections	tra u o D 1		1 mA to 15 A or 1 A to 150 A,		
load rating of max 20 A)	AT3-IIS <sup>D1</sup>	Z745T	frequency range: <u>45 65</u> 500 Hz,		
same as AT3-II-S, however, with a load	AT3-II S32 <sup>D 1</sup>	7745	1 mV/mA and 1 mV/A	WZ12C D)	Z219C
ating of 32 A	AT16-DI	Z745X Z750A	Leakage current clamp 0.1 mA 25 mA,		
3-phase 16 A differential current adapter 3-phase 32 A differential current adapter	AT32-DI	Z750A Z750B	100 mV/mA	SECUTEST CLIP D)	Z745H
Test adapter with single and 3-phase plug	AI 32-DI	ZIJUD			
connectors up to CEE 32A			Temperature sensors for SECUTEST PRO	SECULIFE ST BAS	E(25)
- For all tests without line voltage at single			Pt100 temperature sensor for surface and		
and 3-phase electrical devices			immersion measurement, -40 to + 500 °C	Z3409	GTZ3409000R0001
- For tests at single			Pt1000 temperature sensor for measure-		
and 3-phase extension cords	VL2E	Z745W	ment in gases and liquids,	TF220	71004
Adapter cable CEE 16 A 5-pin plug red on			-50 +220 °C	IFZZU	Z102A
CEE 32 A 5-pin coupling red, 0.5 m,	Adapter cable		Pt100 oven sensor, Pt100, -50 +550 °C	TF550	GTZ3408000R0001
5 x 1.5 mm <sup>2</sup>	CEE16/CEE32	Z750F		1F000	G1234000000000000000000000000000000000000
			Sounding pipe oil temperature sensor, Pt1000 class B, -50+500 °C, sensor 3		
Adapter for testing single-phase extensi	on cables		mm dia. x 810 mm length	TF400CAR	Z102C
Adapter for testing single-phase extension				11 1000/111	21020
ables including earth contact and inlet		77004	Pouches and Cases		
olug inserts	EL1	Z723A	Carrying pouch for SECUTEST BASE(10)/		
Plug insert for using adapter EL1 n Switzerland	PRO-CH	GTZ3225000R0001	PRO/SECULIFE ST BASE	F2000 <sup>D</sup>	Z700D
		G123223000K0001	Carrying pouch big for tester sets	F2020	Z700F
Adapter for testing welding units			Universal carrying pouch with flexible di-		
Fest adapter in combination with			vider and display protection for SECUTEST		
SECUTEST for testing welding units per			BASE(10)/PRO/SECULIFE ST BASE	F2010	Z700G
DIN EN 60974-4:2007.			Plastic system case	SORTIMO L-BOXX	Z503D
The peak-value rectifier in the SECULOAD-			Foam insert for SORTIMO L-BOXX with di-		
V uses the 1N4007 rectifier diode recom-			vider for SECUTEST BASE(10)/PRO/SECU-	Foam SORTIMO	
nended in the standard.			LIFE ST BASE	L-BOXX Secutest4	Z701D
This is a mains rectifier diode which, due to			Foam insert for SORTIMO L-BOXX GM with	Foam SORTIMO	
ts design, is only suitable for voltage			divider for adapters	L-BOXX Adapter	Z701E
sources with low cycle rates within the					
ange of the line frequency, or voltage					
sources with conventional transformer.					
ncludes 4 measurement cables and 2 alli-		77.450			
gator clips.	SECULOAD-N	Z745R			

Designation	Туре	Article number
Data Storage		
Database expansion for SECUTEST		
BASE(10): data import, sequence import,		
Remote	SECUTEST DB+	Z853R
Database extension "comfort" for SECUT-		
EST 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 inter-		
face), Autostore		
<i>,,</i>		
Please indicate the SECUTEST serial num-	SECUTEST DB	
ber for placing an order.	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.	Z751B	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 soft-		
ware, 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 re-		
ports; 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, coat-		
ing outside	Z722S	Z722S
	2.220	2.1220
See also separate ID systems data sheet re	aarding BEID scann	ers harcode scanner
and printers.	garaniy ni id stann	טוס, אמונטעם סנמווופוס

D data sheet available

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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