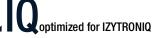


Test Instruments for Measuring Electrical Safety of Devices per VDE 0701-0702, IEC 62353 and IEC 60974-4

3-447-080-03 2/9.21

- Preconfigured test sequences for quickly testing simple operating equipment
- One test sequence executed with individual measurements
- Suitable for use by instructed persons
- Comprehensive data management and storage concept for test results and individual measurements (up to 50,000 data records*)
 assignment of measurements/tests to devices and clients.
- 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 for the 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
- Interfaces for data entry (2x USB A) and data exchange (1x USB B)
- Extensive setting options for international use (language, keyboard, character set, date, time)
- Testing of different PRCD types, e.g. PRCD-S/PRCD-K (also with protective conductor resistance measurement for variants with connected PE) with the integrated test sequence "VDE 0701-0702-PRCD"

















Database Expansions for SECUTEST DB+ (Z853R)

- 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
- Database field test interval

Database Expansions for SECUTEST DB COMFORT (Z853S)

- New database object Medicine Device with extended entry options
- The search function via the "Search all" softkey 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.
- Database field Test interval

^{* 1} data record = 1 DUT or location node or customer or individual measurement

Test Instruments for Measuring Electrical Safety of Devices

Features

Measurement Functions

Switch Set- ting		ring Function, rrent/Voltage	Measurement Type Connection Type
Single i	measure	ements, rotary switch level: green	
RPE	R _{PE}	Protective conductor resistance	PE(TS) - P1 passive
	I	Test current (200 mA) SECUTEST ST BASE10/PR0: and SECULIFE ST BASE 10 A ¹ (Feature G01) & SECULIFE ST BASE 25: 25 A ¹⁾ (Feature G02)	P1 - P2 ³
R	R _{ISO}	Insulation resistance	LN(TS) - PE(TS)
	U _{ISO}	Test voltage	LN(TS) - P1 P1 - P2 ³ PE(Mains) - P1 PE(TS) - P1 LN(TS) - P1//PE(TS)
I PE	I _{PE~}	Protective conductor current, RMS value	Direct
	I _{PE~}	AC component	Differential
	I _{PE=}	DC component Test voltage	Alternative AT3-Adapter ² Clamp ²
I	I _{T≃}	Touch current, RMS value	Direct
	I _{T~}	AC component	Differential
	I _{T=}	DC component	Alternative (P1)
	U _{LN}	Test voltage	Permanent connection Alternative (P1-P2)
Ι	I _{F~}	Device leakage current, RMS value	Direct
•	I _{E~}	AC component	Differential
	I _{E=}	DC component	Alternative
	U _{LN}	Test voltage	AT3-Adapter ² Clamp ²
lA	I _{A≃}	Leakage current from the application part, RMS value	Direct (P1) Alternative (P1)
	U _A	Test voltage	Permanent conn. (P1)
I P	I _P <u>~</u>	Patient leakage current, RMS value	
	I _{P~}	AC component	Direct (P1)
	$I_{P=}$	DC component	Permanent conn. (P1)
	U_{LN}	Test voltage	
U	U <u>~</u>	Probe voltage, RMS	PE - P1
	U_	Alternating voltage component	PE - P1 (with mains*)
	U_	Direct voltage component	* polarity preset
	U <u>~</u>	Measurement Voltage RMS ²	V – COM
	U_	Alternating voltage component ²	V – COM (with mains
	$U_{=}$	Direct voltage component ²	
t ⁴	t _B	PRCD time to trip for 30 mA PRCDs	
	U _{LN}	Line voltage at the test socket	
P		on test at the test socket	
	I	Current between L and N	
	U	Voltage between L and N	
	f	Frequency	Polarity preset
	P	Active power	
	S	Apparent power	
D l	PF	Power factor	
		ng functions	El 1 adapt ::
EL1		on cords with adapter: ty, short-circuit, polarity (wire reversal ⁵)	EL1 adapter EL1 adapter (continuity only) AT3-IIIE adapter VL2E adapter
EXTRA	Reserve	d for expansion during the course of software	updates
•	°C	Temperature measurement ² with Pt100/Pt1000	
	IZ	Measurement of current at clamp with	V – COM
		current clamp sensor	

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

and **SECULIFE ST BASE(25)**Terminal for 2nd test probe for 2-pole measurement only with **SECUTEST ST PR0** (or device with Feature H01) and **SECULIFE ST BASE(25)**

Measurement of time to trip not possible in IT systems

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	Automated test sequences, rotary switch level: orange						
Preconfig	Preconfigured (freely configurable) test sequences – Delivery Status						
A1	VDE 0701-0702	Passive measuring method, test socket					
A2	VDE 0701-0702	Active measurement type, test socket					
A3	VDE 0701-0702-IT	Parameters configuration for EDP (active)					
A4	IEC 62353 (VDE 0751)	Passive measurement type					
A5	IEC 62353 (VDE 0751)	Active measurement type					
A6	IEC 60974-4	Connection type: test socket					
A7	IEC 60974-4	Connection type: AT16-DI/AT32-DI					
A8	VDE 0701-0702	VDE 0701-0702, measurement type Extension Cord test (RPE, RISO), EL1/VL2E/AT3-IIIE adapter					
A9	VDE 0701-0702	Connection type, measurement type, protection category – in each case automatic					

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 (START/ STOP key)	Display at the instrument	Press START /STOP button U > 25 V Button \rightarrow PE: < 1 M Ω ²	All measurements disabled
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)		$\begin{array}{c} U_{L-N} < 180 \text{ V} \\ U_{L-N} < 90 \text{ V} \end{array}$	Possible under certain circumstances ¹
Test on IT/TN system	Display at the instrument	Connection $N \rightarrow PE > 20 \text{ k}\Omega$	Possible under cer- tain circumstances

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

Voltage measurement inputs only with SECUTEST ST PRO (or device with Feature IO1)

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

owing states are chec	ked and displa	yed before measur	
Control Function			Condition
Short-circuit test L-N	Short-cii	rcuit / starting current	$R \le 2.5 \Omega$
		short-circuit (AC test)	$R > 2.5 \Omega$
Open-Circuit Voltage U ₀ 4	.3 V, Short-Circuit (Current I _K < 250 mA	
Short-circuit test N-PE		Short-circuit	$R \le 2 k\Omega$
		short-circuit (AC test)	$R > 2 k\Omega$
Open-Circuit Voltage U ₀ 23	O V, AC, Short-Circu		
On test		On (passive DUT)	$R < 250 \text{ k}\Omega$
		Off (active DUT)	$R > 300 \text{ k}\Omega$
Open-Circuit Voltage U ₀ 23	O V AC, Short-Circui	t Current I _K < 1,5 mA	
Switchable control		Mains power on	$R < 500 \Omega$
		Popup	$R > 500 \Omega$
Probe test		No probe	$R > 2 M\Omega$
		Probe detected	$R < 500 \text{ k}\Omega$
Protection class detection			ug variant) I
	Protective	conductor exists: PC I	R < 1 Ω
	No prote	ctive conductor: PC II	$R > 10 \Omega$
Safety shutdown			
Triggered at following resid		selectable)	> 10 mA / > 30 mA
Triggered at following prob	e current values	during leakage cur- rent measurement	> 30 mA ⁻²
		sistance measurement	
Connection test (only for	country-specific (ea	rth-contact) plug varian	t) 1
Checks whether the DUT i	s connected to the	test socket.	
	Po	wer line of DUT exists	R < 1 Ω
		No power line of DUT	$R > 10 \Omega$
Insulation test	DUT set up in a	well-insulated fashion	$R \ge 500 \text{ k}\Omega$
		orly insulated fashion	$R < 500 \text{ k}\Omega$
PELine – PETestsocket: Ope	en-Circuit Voltage U ₀	$_{ m 0}$ 50 V DC , $I_{ m K}$ < 2 mA	
Overcurrent protection (sl			
Shutdown in the event of a co Our test instruments SECUTE: BASE(25) allow for the active current) of up to 16 A. The te equipped with 16 A fuses and also amounts to 16 A. Startin	ST ST BASE10/PRO ar testing of devices with st socket of the respondent the switching capacity	nd SECULIFE ST th a nominal current (load ective test instrument is city of the internal relays	I > 16.5 A
devices under test which are than 30 A, we strongly recomhigher starting currents: e. g. applies to M7050 with f	nmend the application test adapter of the A	n of a test adapter for	

Features

SECUTEST ST BASE, SECUTEST ST PRO, SECULIFE ST BASE and SECU-LIFE ST BASE25 test Instruments are available with various features. These can be selected when placing an order. The basic instruments include the following features:

	<u> </u>			
SECUTEST	ST BASE	ST PRO	ST PRO BT comfort	_
SECULIFE	_	ST BASE	_	ST BASE 25
Touch screen / keyboard				
10 A RPE test current				
25 A RPE test current				
2 nd test probe				
Voltage meas. inputs*				
SECUTEST DB+				
SECUTEST DB comfort				
Bluetooth [®]				
Antimicrobial housing		ST BASE		
* for voltage magaziremente e	r connecting	urrent elema	concore or A	T2 adapter as

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

Included □ Optional

Detailed information regarding features and accessories can be found under "Order Information" on page 11.

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. Sample pictures are shown on the next page.

The display and user prompting can be set to the desired lanquage 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 ST 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 ST 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 IZY-TRONIQ software at the PC for subsequent transmission to the test instrument

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

Data Interfaces

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

Firmware version 3.2.0 and previous: 12 mA

Test Instruments for Measuring Electrical Safety of Devices

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 USB flash drive as HTML protocol.

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.

Software - IZYTRONIQ

IZYTRONIQ is a database-based 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 guick access to all functions.

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

Depending on which instrument variant you order, IZYTRONIQ is included in the scope of delivery – for example with standard models and instrument sets (see "Order Information" on page 11). If this is not the case or if you would like to take advantage of a variant with a larger scope of functions, you can purchase IZY-TRONIQ separately. Detailed information can be found on our website:

https://www.gmc-instruments.de/en/products/software-and-accessories/software/



Scope of Delivery

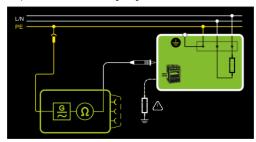
The scope of delivery varies depending on which instrument variant has been ordered, and is country-specific. Information concerning the scope of delivery can be found under "Order Information" on page 11.

Backlit Multi-Display Samples

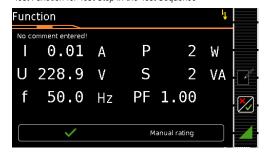
Single Test - Initial Screen with Parameters Display



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



Characteristic Values

Func-	Measured	Display Range / Nominal Range of	Reso-	Nominal Voltage	Open- Circuit	Nom. Current	Short- Circuit	Inter- nal Re- sis-	Refer- ence Resis-	Measuring	Intrinsic Error		rload acity
tion	Quantity	Use	lution	U _N	Voltage U ₀	I _N	Current I _K	tance R _I	tance R _{REF}	Uncertainty		Value	Time
	Protective conductor	1 999 mΩ	1 mΩ		< 24 V		>200 mA AC or DC >10 AAC 5			±(15% rdg. + 10 D) > 10 D	±(10% rdg.+ 10 d)	264 V 250 mA	Cont.
	resistance 12	1.00 .000.0	100	_	AC or DC	_	>35 AAC	_	_	$> 10.0 \Omega$:	> 10 d	16 A ⁵	
_	RPE	1.00 999 Ω 10.0 27.0 Ω	10 mΩ 100 mΩ				11			±(10 % rdg.+ 10 d)		>42 AAC	15 s
751		10.0 27.0 Ω	100 III <u>Ω</u>							1/E0/ -1 4 D	. /O.F.W I O N		
E 0	Insulation	1.00 9.99 MΩ	10 kΩ	E0 E00	10-11					±(5% rdg.+ 4 d) > 10 d	±(2.5% rdg.+2 d) > 10 d		
8	resistance 9	10.0 99.9 MΩ	100 kΩ	50 500 V DC	1.0 • U _N 1.5 • U _N	> 1 mA	> 2 mA	_	_			264 V	Cont.
353	R	100 300 MΩ	1 MΩ		JN					\geq 20 M Ω : ±(10% rdg.+ 8 d)	\geq 20 M Ω : ±(5% rdg.+4 d)		
; 62	Laskana suumant	0.0 99 μΑ	1 μΑ							, ,	, ,		
Ē	Leakage current, alternative	100 999 μΑ	1 μΑ		50				1 kΩ	±(5% rdg.+ 4 d) > 10 d	±(2% rdg.+2 d) > 10 d		
(2)	measurement ²	1.00 9.99 mA	10 μΑ	_	250 V~ - 20/+10%	_	> 1.5 mA	$> 150 \text{ k}\Omega$	±10 Ω	> 15 mA:	> 15 mA:	264 V	Cont.
-07	IPE, V IA	10.0 30.0 mA	100 μΑ		- 20/+10%					±(10% rdg.+ 8 d)	±(5% rdg.+ 4 d)		
Tests, DIN VDE 0701-0702) / IEC 62353 (VDE 0751)		Only lp: 0.0 99.9 μΑ	100 nA										
ğ	Leakage current, direct	0.0 99 μA	1 μΑ				_	1 kΩ ±10 Ω		±(5% rdg.+ 4 d) > 10 d	±(2.5% rdg.+2 d)		
	measurement ³	100 999 μΑ	1 μΑ	_	_	_					> 10 d	264 V	Cont.
ţş,	IPE, I, I, IA, IP	1.00 9.99 mA	10 μΑ										
<u>Tes</u>		10.0 30.0 mA	100 μΑ										
	Leakage current,	0 99 μΑ	1 μΑ										
	differential	100 999 μΑ	1 μΑ							±(5% rdg.+ 4 d)	±(2.5% rdg.+2 d)	264 V	
	current measurement ⁴ IPE, I, IG	1.00 9.99 mA	10 μΑ	_	_	_	_	_	_	> 10 d	> 10 d		Cont.
		10.0 30.0 mA	100 μΑ										
ket	Line voltage U _{L-N} ¹⁰	100.0 240.0 V~	0.1 V	_	_	_	_	_	_	_	±(2% rdg.+2 d)	264 V	Cont.
200	Load current I _L	0 16.00 A _{RMS}	10 mA	_	_	_	_	_	_	_	±(2% rdg.+2 d)	16 A	Cont.
test	Active newer D	0 0700 W	4 14/								±(5% rdg.+10 d)	264 V	Cont.
Function test at test socket	Active power P	0 3700 W	1 W	_	_				_	_	> 20 d	20 A	10 min
ion te	Apparent power S	0 4000 VA	1 VA			Cald	culated valu	e, U _{L−N} • I _V			±(5% rdg.+10 d) > 20 d	264 V	Cont.
Funct	Power factor PF with sinusoidal waveform: coso	0.00 1.00	0.01			Calculated	I 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 PRCD	Time to trip	0.1 999.0 ms	0.1 ms	_	_	30 mA	_	_	_	±5 ms	_	264 V	Cont.
ement	Probe voltage (test probe P1 to PE) —, ~ and ≂	0.0 99.9 V 100 264 V						3 MΩ			±(2 % v.M.+2 D)	264 V	
Voltage measurement	Meas. voltage (sockets V–COM ⁶)	0,0 99.9 V	100 mV 1 V	_	_	_		1 ΜΩ	_	_	±(2 % rdg. +2 d) > 45 Hz 65 Hz ±(2 % rdg.+5 d) > 65 Hz 10 kHz	300 V ==, ~	Cont.
No.	<u></u> , ∼ and ≂	100 300 V									±(5 % rdg. +5 d) > 10 kHz 20 kHz	and 😎	
	Leakage current	0,00 0.99 mA ~	0.01 mA								±(2 % rdg.+2 d)		
ΙL	via AT3-IIIE adapter Z745S ⁶ ⁸	1,0 9.9 mA ∼	0.1 mA	_	_	_	_	_	_	_	> 10 D	253 V	Cont.
-	auapier Z/455 ° °	10 20 mA ∼	1 mA								without adapter		
Temp	Temperature with Pt100 sensor	− 200.0 +850.0 °C	0.1.00		. 20.1/		11				1/0 0/ 54 4 00	10.1/	0+
ienip	Temperature with Pt1000 sensor	− 150.0 +850.0 °C	0.1 °C	_	< 20 V -		1.1 mA	_	_	_	±(2 % rdg.+1 °C)	10 V	Cont.

Test Instruments for Measuring Electrical Safety of Devices

Func-	Measured	Display Range / Nominal Range of	Reso-	Nominal Voltage	Open- Circuit	Nom. Current	Short- Circuit	Inter- nal Re- sis-	Refer- ence Resis-	Measuring	Intrinsic Error		rload acity
tion	Quantity	Use	lution	U _N	Voltage U ₀	I _N	Current I _K	tance R _I	tance R _{REF}	Uncertainty	munisic Error	Value	Time
	Current via	1 99 mA ∼	1 mA (1 mV)									253 V	
	current clamp sensor	0.1 0.99 A ∼	0.01 A (10 mV)	_	_	_	_	_	_	_			
	[1 mV : 1 mA] (V-COM sockets ⁶ ⁷)	1.0 9.9 A ~	0.1 A (100 mV)										
		10 300 A ∼	1 A (1 V)										
	Ourrent via	0.1 9.9 mA ∼	0.1 mA (1 mV)	_			_	_			±(2 % rdg.+2 d) > 10 d 20 Hz 20 kHz without clamp		Cont.
	Current via current clamp	10 99 mA ∼	1 mA (10 mV)		_	_							
	sensor [10 mV : 1 mA] (V-COM sockets ^{6 7})	0.10 0.99 A ~	0.01 A (100 mV)						_	_			
	(V CONT SUCRCES)	1.0 30.0 A∼	0.1 A (1 V)										
I _{Clamp}	O	0.01 0.99 mA ~	0.01 mA (1 mV)				_						
	Current via current clamp sensor	1.0 9.9 mA ∼	0.1 mA (10 mV)										
	[100 mV : 1 mA] (V–COM sockets ^{6 7})	10 99 mA ∼	1 mA (100 mV)								_		
	(V CONTOCONOLO)	0.10 3.00 A ∼	0.01 A (1 V)										
	O	1 99 µA ∼	1 μA (1 mV)										
	Current via current clamp	0.10 0.99 mA ~	0.01 mA (10 mV)										
	sensor [1000 mV : 1 mA] (V-COM sockets ^{6 7})	1.0 9.9 mA ∼	0.1 mA (100 mV)	_	_		_	_	- -	_			
	(* OOIN SOUNCES)	10 300 mA ∼	1 mA (1 V)										

² Known as equivalent leakage current or equivalent patient leakage current from previous standards

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

Test Times, Automated Sequence

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

Emergency Shutdown During Leakage Current Measurement

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

Influencing Quantities and Influence Error

Influencing Quantity / Sphere of Influence	Designation per IEC 61557-16	Influence Error ± % rdg.
Change of position	E1	_
Change to test equipment supply voltage	E2	2.5
Temperature fluctuation	E3	Specified influence errors valid starting with temperature change 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		
49 51 Hz	E8	2 with capacitive load (for equivalent leakage current)
45 100 Hz		1 (for touch current)
		2.5 for all other measuring ranges

Reference Ranges

Waveform Sine (deviation between effective and

rectified value < 0.5%)

Ambient temperature +23 °C ±2 K

Protective conductor current, touch current, device leakage current, patient leakage current
Protective conductor current, touch current, device leakage current

Only with feature G01, p. e. SECUTEST ST BASE10/SECUTEST ST PRO and SECULIFE ST

BASE

Only with feature IO1, p. e. SECUTEST ST PRO and SECULIFE ST BASE

Measurement type IPE clamp and IG clamp
 Measurement type IPE AT3 adapter and IG AT3 adapter

The measuring range upper limit depends on the selected test voltage.

¹⁰ Due to inrush current limiting components, the voltage at the test socket may be lower than the measured line voltage.

¹¹ only with feature G02, p. e. **SECULIFE ST BASE25**

¹² Details for measurement type PE(mains) – P1 after offset balancing

40 ... 60% Relative humidity Load resistance Linear

Nominal Ranges of Use

90 V ... 264 V AC Nominal line voltage 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

Elevation

Max. 75%, no condensation allowed

Max. 2000 m

Deployment

Indoors, except within specified ambient

conditions

25 A test:

Power Supply

Electrical system TN, TT or IT 100 V ... 240 V AC Line voltage 50 Hz ... 400 Hz Line frequency

Power consumption

200 mA test: approx. 32 VA approx. 105 VA 10 A test: approx. 280 VA

Mains to test socket

(e.g. function test)

Continuous max. 3600 VA, power is conducted through the instrument only, switching capacity ≤ 16 A, ohmic load; for currents > 16 A AC please use the adapter AT3-IIS32 (Z745X)

Electrical Safety

Protection class I per EN 61140

230 V Nominal voltage

2.3 kV AC 50 Hz or 3.3 kV DC Test voltage

> (mains circuit / test socket to mains PE terminal, USB, finger contact, probe, test socket)

laid out for 300 V CAT II Measuring category

(however, reduced to 250 V CAT II through the use of fuses for increased user safety. The user-friendly fuses are interchangeable

and replacement is easy to obtain.)

Pollution degree

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 measurement:> 30 mA¹~/< 500 ms

- Protective conductor resistance meas.:

 $> 250 \text{ mA} \sim / < 1 \text{ ms}$

At continuous flow of current I > 16,5 A

2 ea. FF 500V/16A Fuse links Mains fuses: M 250V/250mA

Probe fuse: SECUTEST ST BASE10/PR0/

SECULIFE ST BASE: Additionally (Feature G01)

10 A RPE test current 1 ea. FF 500V/16A

Database

Number of data records 50,000

(1 data record = 1 DUT or location node or customer or individual measurement)

Bluetooth® 2.1 + EDR Data Interface

(SECUTEST ST PRO BT comfort or feature M01 only)

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*

IZYTRONIQ via the USB slave data interface.

Electromagnetic Compatibility

* compatible devices see next page

Product standard DIN EN 61326-1

DIN FN 61326-2-2

Interference Emission		Class
EN 55011		В
IEC 61000-3-2		В
IEC 61000-3-3		В
Interference Immunity	Test Value *	Evaluation Criterion
EN 61000-4-2	Contact/atmos 4 kV/8 kV	В
EN 61000-4-3	10 V/m (80 MHz 1 GHz)	А
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	А
EN 61000-4-8	30 A/m	А
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)

with SECUTEST ST PRO/SECULIFE ST BASE(25) Touch screen

or feature E01

(touch-sensitive user interface) **Dimensions** W x H x D: 295 x 145 x 150 mm Height with handle: 170 mm

SECUTEST ST BASE(10)/PRO: approx. 2.5 kg Weight

SECULIFE ST BASE25: approx. 4.0 kg

Protection Housing: IP40

Test socket: IP20 per DIN VDE 0470,

part 1/EN 60529.

SECULIFE ST BASE(25): Housing with antimicrobial properties in accordance with the JIS-

Standard Z 2801

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

EN 61010-1	Safety requirements for electrical equipment for measurement, control and laboratory use — General requirements
EN 60529	Test instruments and test procedures Degrees of protection provided by enclosures (IP code)
EN 61326-1	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements
EN 61326-2-2	Part 2-2: Particular requirements – Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems
EN 61557-16	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

¹ Firmware version 3.2.0 and previous: 12 mA

Test Instruments for Measuring Electrical Safety of Devices

Accessories

The accessories listed below are usually not included in the scope of delivery. This does not apply in the case of instrument sets which include accessories. Order information for accessories can be found under "Order Information" on page 11.

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 ST BASE10/PR0/ 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:

- 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.



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 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 ST BASE(10)/PRO/SECULIFE ST BASE(25) test 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)

Foam insert for test instrument and accessories.



Test Instruments for Measuring Electrical Safety of Devices

Universal carrying pouch F2000 (Z700D)



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

Universal carrying pouch (large) F2020 (Z700F)



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



Universal carrying pouch (small) F2010 (Z700G)



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

For additional information regarding accessories please refer to

- Measuring Instruments and Testers catalog
- our website
- www.gmc-instruments.de/en/



Order Information

SECUTEST ST BASE, SECUTEST ST PRO, SECULIFE ST BASE and SECULIFE ST BASE25 test instruments are available with various features and accessories, and can be ideally matched to your requirements. When ordering you can select from amongst:

- A standard model (frequently selected combinations of basic instruments and features)
- An instrument set (instrument with features and accessories which are ideally matched to a specific application
- A customized variant (instrument with features you select yourself)

Accessories can of course be purchased individually along with your instrument or at a later point in time.

Standard Models

Standard Model	Article Number	Features
SECUTEST ST BASE	M707A	Schuko variant (test socket and mains plug), selectable user interface language (default setting: German), Protective conductor test current: 200 mA
SECUTEST ST PRO	M707B	Same as M705A but with 10 A protective conductor test current, with touchscreen, voltage measuring inputs, connection for 2 nd test probe and DB+ database expansion
SECUTEST ST PRO BT comfort		Same as M705C but with Bluetooth [®] port and Database Comfort

Scope of Delivery for each tester: Mains power cable, test probe, USB cable, plug-on alligator clip, cable set KS17-ONE for voltage measuring inputs (for SECUTEST PRO and SEC ULIFE ST BASE(25 only), printed condensed operating instructions in German, complete operating instructions (for download from the Internet), DAkkS calibration certificate in D-GB-F, card with registration key for PC database and report software IZYTRONIQ BUSINESS Starter included in the scope of supply (for download from the Internet)

Device Kits

Туре	Designation					Article number			
Starter Package SECUTEST ST BASE	See scope of delivery below. Including IZYTRONIQ BUSINESS ADVANCED					M708A			
PROFI PACKAGE SECUTEST ST PRO	See scope of delivery below. Including IZYTRONIQ BUSINESS PROFESSIONAL					M708B			
COMFORT PACKAGE SECUTEST PRO	See scope of delivery below. Including IZYTRONIQ BUSINESS PROFESSIONAL					M708C			
WELDER'S/ 3-PHASE CURRENT PACKAGE SECUTEST ST PRO	See scope of delivery below. Including IZYTRONIQ BUSINESS PROFESSIONAL					M708D			
Accessories	For use with the following test packages:	STARTER PACKAGE	PROFI PACKAGE	COMFORT PACKAGE	WELDER'S/ 3-PHASE CUR- RENT PACKAGE				
SECUTEST ST BASE	SECUTEST variant								
SECUTEST ST PRO	SECUTEST variant				-				
SECUTEST ST PRO BT comfort	SECUTEST variant								
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 testing single-phase extension cables				-	Z723A			
Brush probe	Probe for measuring protective conductor resistance, e.g. at rotating devices under test					Z745G			
SECULOAD N	Test adapter for testing welding units in accordance with DIN EN 60974-4:2007				-	Z745R			
AT16-DI	3-phase 16 A differential current adapter				-	Z750A			
PC2	Probe with test probe and 2 m probe cable				-	Z745D			
Adapter cable CEE16/CEE32	Adapter cable, red CEE 5-pole 16 A plug to red CEE 5-pole 32 A coupling				-	Z750F			
Barcode reader	Barcode reader with USB port for 1D and 2D codes, e.g. Code 39, Code 128, EAN 13		•	•	-	Z751A			
	Key: ■ Included □ Optional								

^{*} Database expansion DB+ included

Test Instruments for Measuring Electrical Safety of Devices

Order Features

Connections – plug for mains Germa UK FR/CZ China USA AUS DK IT CH wit Univer (for DL User interface language (prese Germa Englist French Italian Spanis Czech Dutch Polish Data entry via touchscreen withou with R-PE test current for protecti 200 m	h detection of terminals and safety classes sal adapter for test socket Germany (B00) ITs with different country-specific plugs) t t language upon delivery, can be subsequently ch an	B00 B01 B03 B04 B05 B06 B07 B08 B09 B11 anged to any of the	AA01	AA02 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	□ □	AA11 D D D D D D D D D	AA12 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
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Italian Spanis Czech Dutch Polish Data entry via touchscreen withou with R-PE test current for protecti 200 m 200 m 200 m Connection for 2 ^{na} test probe		C02		\triangleright	\triangleright	\triangleright	$\overline{\triangleright}$
Spanis Czech Dutch Polish Data entry via touchscreen withou with R-PE test current for protecti 200 m 200 m 200 m Connection for 2 ^{na} test probe	•	C03			>	D	$\overline{\triangleright}$
Czech Dutch Polish Data entry via touchscreen withou with R-PE test current for protecti 200 m 200 m 200 m Connection for 2 ^{na} test probe	sh	C04	D	\triangleright	>	>	<u> </u>
Dutch Polish Data entry via touchscreen withou with R-PE test current for protecti 200 m 200 m 200 m Connection for 2 nd test probe	"	C05			>	D	
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Data entry via touchscreen withou with R-PE test current for protecti 200 m 200 m 200 m Connection for 2 ^{na} test probe		C07	>	\triangleright	>	>	$\overline{\triangleright}$
withou with R-PE test current for protecti 200 m 200 m 200 m Connection for 2 nd test probe						,	-
with R-PE test current for protecti 200 m 200 m 200 m Connection for 2 ^{na} test probe	†	E00					
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200 m 200 m 200 m Connection for 2 nd test probe	ve conductor measurement						
200 m Connection for 2 nd test probe		G00					
200 m Connection for 2 nd test probe	A and 10 A 1) (not in combination with G02)	G01					
· ·	A and 25 A	G02					-
withou	1						
	t	H00					
with		H01					
DVM function (digital voltmeter	r) with 2 additional measurement inputs, COM-V						
withou	t	100	-	-			
with		101					-
Connection for application part	ts						
withou		J00	-				
Additional test sequences							
withou	t	KA00					
Database expansion without		KB00					
,	orresponds to Z853R – SECUTEST DB+)	KB01					
Database Comfort withou		KD00					
	orresponds to Z853S – SECUTEST DB COMFORT)	KD01					
Bluetooth® withou	t	M00					
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DAkkS calibration certificate							
D-GB-		P00					
D-GB-	DI	P01	\triangleright	\triangleright	\triangleright	\triangleright	\triangleright
D-GB- Key: ■ Default □ Optional ▷		P02	\triangleright	\triangleright	\triangleright	\triangleright	\triangleright

^{1) 10} A/25 A-R_{PE} measurements are only possible with line voltages of 115 V/230 V

and line frequencies of 50 Hz/60 Hz.

Sample order

SECUTEST ST BASE10 with English user guidance = M7050 AA02 C01 G01

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

Accessories

Designation	Туре	Article number
Mains power cable		
Cable set for connecting test instruments		
to the mains without using a an earthing		
contact outlet, and for connecting DUTs.		
Consists of coupling socket with 3 perma-		
nently connected cables, 3 measurement		
cables, 3 plug-on pick-up clips and 2 plug- on test probes.	KS13	GTY3624065P01
on test probes.	NOIO	G113024003F01
Adapter for testing 3-phase current cons	sumers	
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)		
- for leakage current measurements in		
accordance with differential current	ATO 11: 5 D	77.450
method ¹	AT3-III-E D	Z745S
Test adapter for tests on devices with		
CEE16 and CEE32 connections	ATO US D 1	77.457
(load rating of max 20 A)	AT3-IIS ^{D 1}	Z745T
same as AT3-II-S, however, with a load	ATO U.O D.1	77.45
rating of 32 A	AT3-II S32 ^{D 1}	Z745X
3-phase 16 A differential current adapter	AT16-DI	Z750A
3-phase 32 A differential current adapter	AT32-DI	Z750B
Test adapter with single and 3-phase plug		
connectors up to CEE 32A		
 For all tests without line voltage at single 		
and 3-phase electrical devices		
For tests at single		
and 3-phase extension cords	VL2E	Z745W
Adapter cable CEE 16 A 5-pin plug red on CEE	Adapter cable	77505
32 A 5-pin coupling red, 0.5 m, 5 x 1.5 sq. mm	CEE16/CEE32	Z750F
Adapter for testing single-phase extensi	on cables	
Leakage current clamp meter	UII CADIES	
(current clamp) for SECUTEST ST PRO		
0.1 mA 25 mA AC,		
frequency range: 50 Hz 1 MHz,		
transformation ratio: 100 mV / mA,		
clamp opening:: Ø 40 mm max. cable dia.	SECUTEST CLIP	Z745H
Adapter for testing single-phase extension		
cables including earth contact and inlet		
plug inserts	EL1	Z723A
Plug insert for using adapter EL1 in Swit-		
zerland	PRO-CH	GTZ3225000R0001
-		
Adapter for testing welding units		
Test adapter in combination with		
SECUTEST for testing welding units per		
DIN EN 60974-4:2007.		
The peak-value rectifier in the SECULOAD-		
N uses the 1N4007 rectifier diode recom-		
mended 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 alli-		
gator clips.	SECULOAD-N	Z745R

Designation	Туре	Article number
Calibration adapter		
Calibration adapter for test instruments per DIN VDE 0701-0702/IEC 62353 (VDE 0751) (max. 200 mA) cannot be used for 10 A protective conductor test current	SECU-cal 10	Z715A
Probe cable		
Probe cable with test probe and 2 m probe cable (not coiled), 300 V CAT II 16 A	SK2	Z745D
Probe cable with test probe and 2 m probe cable (coiled), 300 V CAT II 16 A	SK2W	Z745N
5 m probe cable for protective conductor measurement, 300 V CAT II 16 A	SK5	Z7450
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. 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,	SV5	Z745J
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
Olin and annual annual for OFOUTERT OF	DDO/OFOULIFE OT	DAOF(OF)
Clip-on current sensor for SECUTEST ST Clip-on current sensor, can be set to 1 mA to 15 A or 1 A to 150 A, frequency range: 45 65 500 Hz, 1 mV/mA and 1 mV/A	WZ12C ^{D)}	Z219C
Leakage current clamp 0.1 mA 25 mA, 100 mV/mA	SECUTEST CLIP D)	Z745H
Temperature sensors for SECUTEST ST F	PRO/SECULIFE ST E	BASE(25)
Pt100 temperature sensor for surface and immersion measurement, -40 to + 500 °C Pt1000 temperature sensor for measure-	Z3409	GTZ3409000R0001
ment in gases and liquids, -50 +220 °C	TF220	Z102A
Pt100 oven sensor, Pt100, -50 +550 °C	TF550	GTZ3408000R0001
Sounding pipe oil temperature sensor, Pt1000 class B, –50+500 °C, sensor 3 mm dia. x 810 mm length	TF400CAR	Z102C
Pouches and Cases	i	i
Carrying pouch for SECUTEST ST BASE(10)/ PRO/SECULIFE ST BASE(25)	F2000 ^D	Z700D
Carrying pouch big for tester sets	F2020	Z700F
Universal carrying pouch with flexible divider and display protection for SECUT- EST ST BASE(10)/PRO/SECULIFE ST BASE(25)	F2010	Z700G
Plastic system case	SORTIMO L-BOXX	Z503D
Foam insert for SORTIMO L-BOXX with divider for SECUTEST ST BASE(10)/PRO/SECULIFE ST BASE(25) Foam insert for SORTIMO L-BOXX GM with	Foam SORTIMO L-BOXX Secutest4 Foam SORTIMO	Z701D
divider for adapters	L-BOXX Adapter	Z701E

Test Instruments for Measuring Electrical Safety of Devices

Designation	Туре	Article number
Data Storage		
Database expansion for SECUTEST ST		
BASE(10): data import, sequence import,		
Remote	SECUTEST DB+	Z853R
"Comfort" database extension for SECUTEST ST BASE(10)/PRO/SECULIFE ST BASE(25)		
Entry option for test interval and medical device, shifting of test objects, TouchEdit, QuickEdit, PushPrint (sending of test result to interface), Autostore		
Please indicate the SECUTEST serial number for placing an order.	SECUTEST DB comfort	Z853S
D		
Report Generating Accessories		
RFID-System		
RFID read/write for USB connection		
(frequency: 13.56 MHz)	SCANBASE RFID	Z751E
RFID tags per ISO 15693, dia. approx. 22 mm, self-adhesive, 500 pcs.	Z751R	Z751R
RFID tags per ISO 15693, dia. approx.		
30 mm, thickness 2 – 3 mm with 3 –		
4 mm hole 500 pcs.	Z751S	Z751S
RFID tags per ISO 15693, pigeon ring,		
dia. approx. 7.5 mm, 250 pcs.	Z751T	Z751T
Barcode reader		
Barcode scanner for USB connection	Z751A	Z751A
Barcode printer		
Barcode and label printer including soft- ware, for USB connection to the PC or test instrument Coding: Code39, Code128, EAN13, Text, QR code, Micro QR Code, DataMatrix, Aztec	Z721E	Z721E
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
ing oawide	L1 LLU	LILLU
See also separate ID systems data sheet reand printers.	garding RFID scann	ers, barcode scanners

data sheet available

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only with SECUTEST ST PRO (Feature IO1) and SECULIFE ST BASE