

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		ing Function, rent/Voltage	Measurement Type Connection Type
Single	measure	ments, rotary switch level: green	
RPE	R _{PE}	Protective conductor resistance	PE(TS) - P1 passive
	1	Test current (200 mA) SECUTEST BASE10/PRO: and SECULIFE ST BASE 10 A ¹ (Feature G01) & SECULIFE ST BASE25: 25 A ¹) (Feature G02)	PE(TS) - P1 active PE(Mains) - P1 PE(Mains) - P1 Clamp P1 - P2 ³
Riso	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)
IPE	I _{PE} ~	Protective conductor current, RMS value	
	I _{PE~}	AC component	Differential
	I _{PE=}	DC component	Alternative
	U _{LN}	Test voltage	AT3-Adapter ² Clamp ²
в		Touch current, RMS value	Direct
D	l _{T≃}	AC component	Differential
	Ι _{Τ~}	DC component	Alternative (P1)
		Test voltage	Permanent connection
	U _{LN}	lest voltage	Alternative (P1–P2)
lG	$I_{E\simeq}$	Device leakage current, RMS value	Direct
	I _{E~}	AC component	Differential
	I _{E=}	DC component	Alternative
	U _{LN}	Test voltage	AT3-Adapter ² Clamp ²
IA	$I_{A\simeq}$	Leakage current from the application part,	Direct (P1)
IA	'A≃	RMS value	Alternative (P1)
	U _A	Test voltage	Permanent conn. (P1)
IР	I _{P∼}	Patient leakage current, RMS value	
	I _{P~}	AC component	Direct (P1)
		DC component	Permanent conn. (P1)
	ULN	Test voltage	
U	U_	Probe voltage, RMS	PE - P1
0	U U	Alternating voltage component	PE - P1 (with mains*)
	U_ U_	Direct voltage component	* polarity preset
		Measurement Voltage RMS ²	P , P
	U <u>~</u> U_	Alternating voltage component ²	V – COM
	U_ U_	Direct voltage component ²	V – COM (with mains
ta 4	_	PRCD time to trip for 30 mA PRCDs	
la -	t _B	Line voltage at the test socket	
Р		n test at the test socket	
٢			
	1	Current between L and N	
	U	Voltage between L and N	Delevity
	f	Frequency	Polarity preset
	P	Active power	
	S	Apparent power	
	PF .	Power factor	
		g functions	
EL1		cords with adapter: r, short-circuit, polarity (wire reversal ⁵)	EL1 adapter AT3-IIIE adapter VL2E adapter
EXTRA		for expansion during the course of software	
	°C	Temperature measurement ² with Pt100/Pt1000	
	IZ	Measurement of current at clamp with current clamp sensorn	V – COM

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

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

³ Terminal for 2nd test probe for 2-pole measurement only with SECUTEST PRO (or device with Feature H01) and SECULIFE ST BASE(25)
 ⁴ Measurement of time to trip act peacifield in IT automatication

⁴ Measurement of time to trip not possible in IT systems ⁵ No checking for reversed polarity takes place when the E

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

Кеу	
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, rol	tary switch level: orange								
Preconfig	Preconfigured (freely configurable) test sequences - Delivery Statu									
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 nd 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.

 * 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 (START / STOP key)		Press START /STOP button U > 25 V Button \rightarrow PE: < 1 M Ω^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 _{L-N} < 180 V U _{L-N} < 90 V	Possible under cer- tain circumstances ¹
Test on IT/TN system	Test on IT/TN system Display at the instrument		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.

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

Analysis of DUT Connection and Condition

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

Control Function		Condition
Short-circuit test L-N	Short-circuit / starting current	$R \le 2,5 \Omega^2$
	No short-circuit (AC test)	R > 2,5 Ω^2
Open-Circuit Voltage U ₀ 4.3 V, SI	nort-Circuit Current I _K < 250 mA	
Short-circuit test N-PE	Short-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 _K < 1.5 mA	
On test	On (passive DUT)	${\rm R}$ < 250 k Ω
	Off (active DUT)	${\sf R}$ > 300 k Ω
Open-Circuit Voltage U ₀ 230 V AC,	Short-Circuit Current I _K < 1,5 mA	
Special test	No probe	$R > 2 M\Omega$
	Probe detected	${\rm R}$ < 500 k Ω
Protection class detection (only i	for country-specific (earth-contact) plu	ug variant) ¹
	Protective conductor exists: PC I	$R < 1 \Omega$
	No protective conductor: PC II	$R > 10 \Omega$
Safety shutdown		
Triggered at following residual cu	rrent value (selectable)	> 10 mA / > 30 mA
Triggered at following residual cu	rrent values (selectable)	
Dur	ing leakage current measurement	> 10 mA
	ective conductor resistance meas.	> 250 mA
Connection test (only for country	-specific (earth-contact) plug varian	t) ¹⁾
Checks whether the DUT is conn	ected to the test socket.	
	Power line of DUT exists	$R < 1 \Omega$
	No power line of DUT	$R > 10 \Omega$
Insulation test		
DUT	set up in a well-insulated fashion	$R \ge 500 \text{ k}\Omega$
	et up in a poorly insulated fashion	${\sf R}$ < 500 k Ω
PELine – PETestsocket: Open-Circ	uit Voltage U ₀ 500 V DC 3 , I _K < 2 mA	
Overcurrent protection (shutdow		
current) of up to 16 A. The test sock equipped with 16 A fuses and the sv also amounts to 16 A. Starting curre	E(10), PRO and SECULIFE ST of devices with a nominal current (load et of the respective test instrument is vitching capacity of the internal relays nts of up to 30 A are permissible. For ad to feature a starting current of more the application of a test adapter for lapter of the AT3 series	l > 16.5 A

¹⁾ applies to M7050 with feature B00, B09

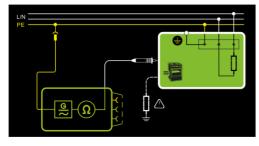
²⁾ applies as from version 1.7.0; previous condition \le 1.5 Ω or > 1.5 Ω , respectively ³⁾ 50 V DC as from version 2.1.0

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

Fun	ction				4	
No c	omment entered!					
	0.01	А	Р	2	W	
U	228.9	۷	S	2	VA	ľ
f	50.0	Hz	PF	1.00		
	\checkmark		М	anual rating]	

Results of a Test Sequence per VDE 0701-0702

Test						\bigtriangleup
UDE0701-0702		24/09/	2013 01:5	8:24 p	om 🗸	
DUT passed!						Ě
ShortedCheck L-N					~	A A A A A A A A A A A A A A A A A A A
Vis. Insp.					\checkmark	
RPE	≤300	mΩ	5	mΩ	\checkmark	
RINS PC I	≥1.00	MΩ	> 300	MΩ	\checkmark	
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	BUSINESS Starter	BUSINESS Advanced	BUSINESS Professional
Standard Models				
SECUTEST BASE IQ	M705A	•		
SECUTEST PRO IQ	M705C	•		
SECUTEST PRO BT comfort IQ	M705E	٠		
SECULIFE ST BASE IQ	M694A	•		
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 _N	Voltage U ₀	I _N	Current I _K	tance R _l	tance R _{REF}	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.
751)	resistance ¹² RPE	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 ⁵ >42 AAC 11	15 s
(VDE 0	Insulation	10999 kΩ 1.00 9.99 MΩ	1 kΩ 10 kΩ	50 500						$\pm (5\% \text{ rdg.} + 4 \text{ d})$ > 10 d	\pm (2.5% rdg.+2 d) > 10 d		
62353	resistance ⁹ Riso	100 99.9 MΩ 100 300 MΩ	100 kΩ 1 MΩ	50 500 V DC	1.0 ● U _N 1.5 ● U _N	> 1 mA	> 2 mA		_	\geq 20 M Ω : ±(10% rdg.+ 8 d)	\geq 20 M Ω : ±(5% rdg.+4 d)	264 V	Cont.
)702) / IEC	Leakage current, alternative measurement ²	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%				10.22	±(10% rdg.+ 8 d)	±(5% rdg.+ 4 d)		
Tests, 62638 (DIN VDE 0701-0702) / IEC 62353 (VDE 0751)	Leakage current, direct measurement ³ IPE, IB, IG, IA, IP	99.9 μA 0.0 99 μA 100 999 μA 1.00 9.99 mA 1.0.0 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 ⁴ IPE, IB, IG	0 99 μA 100 999 μA 1.00 9.99 mA 10.0 30.0 mA	1 μA 1 μA 10 μA 100 μA							\pm (5% rdg.+ 4 d) > 10 d	±(2.5% rdg.+2 d) > 10 d	264 V	Cont.
ket	Line voltage U _{L-N} ¹⁰	100.0 240.0 V~	0.1 V						_		±(2% rdg.+2 d)	264 V	Cont.
t soc	Load current IL	0 16.00 A _{RMS}	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	culated valu	e, U _{L–N} • I _V	1	·	\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 _A 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 $=$	0.0 99.9 V 100 264 V	400 14					3 MΩ			±(2 % v.M.+2 D)	264 V	
Voltage measurement	Measurem. voltage (sockets V–COM 6), \sim and $=$	0,0 99.9 V 100 300 V	100 mV 1 V	_		_	_	1 MΩ	_		±(2 % rdg. +2 d) > 45 Hz 65 Hz ±(2 % rdg.+5 d) > 65 Hz 10 kHz ±(5 % rdg. +5 d) > 10 kHz 20 kHz	300 V , ~ and ≂	Cont.
և	Leakage current via AT3-IIIE adapter Z745S ⁶ ⁸	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- tion	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
	Quantity	Use	lution	U _N	Voltage U ₀	I _N	Current I _K	tance R _I	tance R _{REF}	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 ⁶ ⁷)	1.0 9.9 A ~	0.1 A (100 mV)										
		10 300 A \sim	1 A (1 V)										
	Ourrentuie	0.1 9.9 mA \sim	0.1 mA (1 mV)									253 V	Cont.
	Current via current clamp sensor [10 mV : 1 mA] (V–COM sockets ^{6 7})	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 _{Clamp}		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 ^{6 7})	10 99 mA \sim	1 mA (100 mV)							_			
	(* 001113001013)	0.10 3.00 A ~	0.01 A (1 V)										
	Quirrant uic	1 99 µA ~	1 μΑ (1 mV)										
	Current via current clamp	0.10 0.99 mA \sim	0.01 mA (10 mV)										
	sensor [1000 mV : 1 mA] (V–COM sockets ⁶ ⁷)	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

⁹ The measuring range upper limit depends on the selected test voltage.
¹⁰ Due to inrush current limiting components, the voltage at the test socket may be lower than the measured line voltage

¹¹⁾only with feature G02, p. e. SECULIFE ST BASE 25

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

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

Test Times, Automated Sequence

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

Emergency Shutdown During Leakage Current Measurement

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

Influencing Quantities and Influence Error

Influencing Quantity / Sphere of Influence	Designation per IEC 61557-16	Influence Error $\pm \dots \%$ 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 Waveform Sine (deviation between effective and rectified value < 0.5%) Ambient temperature +23 °C ±2 K Relative humidity Load resistance

50 Hz ±2 Hz

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 ≤ 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[®] 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 see n 	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 SECUTEST PRO/SECULIFE ST BASE(25) or feature E01
	(touch-sensitive user interface)
Dimensions	W x H x D: 295 x 145 x 150 mm
	Height with handle: 170 mm
Weight	SECUTEST BASE(10)/PRO: Approx. 2.5 kg
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

help of the AT16-DI

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)



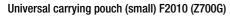
Outside dimensions: W x H x D 380 x 310 x 200 mm (without buckles, handle and carrying strap)



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 nd test probe and database expansion DB+ (features differing from 00: AA03 E01 G01 H01 I01 KB01 V01)			
SECUTEST PRO BT comfort IQ	M705E	same design as M705C, additionally with Bluetooth interface and database comfort (features differing from 00: AA03 E01 G01 H01 I01 KB01 KD01 M01 V01)			
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

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

Database expansion DB+ included

*

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

Device Variants			SECUTEST BASE (M7050 AA01 E00 G00 H00 100 J00 KB00 M00)	SECUTEST BASE10 (M7050 AA02 E00 G01 H00 100 J00 KB00 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 101 J00 KB01 KD01 M00)
	Article Number basic instrument	Article number/		1	M7050		
		Article number/ Feature	AA01	AA02	AA03	AA11	AA12
Connections – plug fo	or mains power supply and test socket is country-specif		70101	70102	78100	70111	70112
1.3	Germany with detection of terminals and safety classes	B00	-,-	-,-	-,-	-,-	-,-
	UK	B01	-,-	-,-	-,-	-,-	-,-
	FR/CZ/PL	B03	-,-	-,-	-,-	-,-	-,-
	China	B04	-,-	-,-	-,-	-,-	-,-
	USA	B05	-,-	-,-	-,-	-,-	-,-
	AUS	B06	-,-	-,-	-,-	-,-	-,-
	DK	B07	-,-	-,-	-,-	-,-	-,-
		B08	-,-	-,-	-,-	-,-	-,-
11	CH with detection of terminals and safety classes	B09	-,-	—,—	-,-	-,-	-,-
User interface languag	ge (preset language upon delivery, can be subsequently cha						
	German	C00 C01	-,-	-,-	-,-	-,-	_,_
	English French	C01	-,-	-,-	_,_	-,-	-,-
	Italian	C02	-,-	_,_ 	_,_ 	_,_	_,-
	Spanish	C03	-,-	_,_	_,_	-,-	-,-
	Czech	C05	-,-	_,_ 	-,-	_,_	_,_
	Dutch	C06	-,-	_,_ 	_,_	_,_	_,_
	Polish	C07	_,- _,-	_,- _,-	_,- _,-	-,- -,-	_,- _,-
Data entry via touchs		007	,	,	,	,	,
Data chity via toucho	without	E00	~	~			
	with	E01	•	•	V	V	V
R-PE test current for	protective conductor measurement				•		•
	200 mA	G00	V				
	200 mA and 10 A ¹⁾ (not in combination with G02)	G01		~	V	~	
	200 mA and 25 A	G02					~
Connection for 2 nd te	st probe						
	without	H00	v	~			
	with	H01			~	~	v
DVM function (digital v	voltmeter) with 2 additional measurement inputs, COM–V						
	without	100	v	 ✓ 			
	with	I01			v	~	 ✓
Connection for applica	•						
	without	J00	~	~	~	~	~
	with	J01					
Additional test sequen					,		
	without	KA00	/	 ✓ 	 ✓ 	/	/
Database sum and iss	IEC 60601	KA01					
Database expansion	without	KB00	 ✓ 	/			
Database Comfort	with (corresponds to Z853R – SECUTEST DB+)	KB01 KD00			~	~	~
Database connort	without with (corresponds to Z853S – SECUTEST DB COMFORT)	KD00 KD01					~
Bluetooth	without	M00					v v
Biaotootii	with	M00					
DAkkS calibration cer	rtificate (language combinations)	1101					_
2 oundradon 001	D-GB-F	P00	-,-		-,-		
	D-GB-PL	P01	,,	_,_ _,_	, _,_	,_ ,_	_,_ _,_
	D-GB-IT	P02	, _,_	, _,_	, _,_	, _,_	, _,_
DAkkS calibration certif				,	,	,	,
	,			✓ 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.

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	Turne	Autiala auroban	Designation Calibration adapter	Туре	Article number
Designation	Туре	Article number	Calibration adapter		
			DIN VDE 0701-0702/IEC 62353		
Mains power cable			(VDE 0751) (max. 200 mA) cannot be		
Cable set for connecting test instruments o the mains without using a an earthing			used for 10 A protective conductor test		
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 cons	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
- For all tests without line voltage			Multiple probe connector for connecting 5		
at single and 3-phase electrical devices – for differential current measurements			• 4 mm and 5 • 2 mm test probes to mea-		
(direct or differential current method)	CEE Adapter	Z745A	sure multiple touchable housing parts or application parts.	SV5	Z745J
6 A / 32 A 3-phase current adapter (test case)		2140/	Cable set (1 pair of measuring cables) 1.2 m,	303	27430
- For all tests without line voltage at single			with VDE-GS sign 1000 V/CAT III 1 A,		
and 3-phase electrical devices			600 V/CAT IV 1 A,		
- For tests at single			1000 V/CAT II 16 A*	KS17-2	GTY3620034P0002
and 3-phase extension cords			2 each in plastic bag, diameter 4 mm, length	-	
- 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		
- 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 method ¹	AT3-III-E ^D	Z745S			
est adapter for tests on devices with	AI 3-III-E	27400	Clip-on current sensor for SECUTEST PR	0/SECULIFE ST BA	SE(25)
CEE16 and CEE32 connections			Clip-on current sensor, can be set to		
load rating of max 20 A)	AT3-IIS D 1	Z745T	1 mA to 15 A or 1 A to 150 A,		
same as AT3-II-S, however, with a load		2.101	frequency range: <u>45 65</u> 500 Hz,		70/00
ating of 32 A	AT3-II S32 ^{D 1}	Z745X	1 mV/mA and 1 mV/A	WZ12C D)	Z219C
3-phase 16 A differential current adapter	AT16-DI	Z750A	Leakage current clamp 0.1 mA 25 mA,	SECUTEST CLIP D)	774511
3-phase 32 A differential current adapter	AT32-DI	Z750B	100 mV/mA	SECUTEST CLIP -/	Z745H
Fest adapter with single and 3-phase plug			Temperature sensors for SECUTEST PRO		E(25)
connectors up to CEE 32A			Pt100 temperature sensor for surface and	SECULIFE ST DAS	L(23)
 For all tests without line voltage at single 			immersion measurement, -40 to + 500 °C	Z3409	GTZ3409000R0001
and 3-phase electrical devices			Pt1000 temperature sensor for measure-	20400	0123403000110001
 For tests at single and 3-phase extension cords 	VL2E	7745\\	ment in gases and liquids,		
•	VLZE	Z745W	-50 +220 °C	TF220	Z102A
Adapter cable CEE 16 A 5-pin plug red on CEE 32 A 5-pin coupling red, 0.5 m,	Adapter cable		Pt100 oven sensor,		
$5 \times 1.5 \text{ mm}^2$	CEE16/CEE32	Z750F	Pt100, -50 +550 °C	TF550	GTZ3408000R0001
5 × 1.5 mm	OLL TO/ OLL JZ	21001	Sounding pipe oil temperature sensor,		
Adapter for testing single-phase extensi	on cables		Pt1000 class B, -50+500 °C, sensor 3		
Adapter for testing single-phase extension			mm dia. x 810 mm length	TF400CAR	Z102C
cables including earth contact and inlet					
blug inserts	EL1	Z723A	Pouches and Cases		
Plug insert for using adapter EL1			Carrying pouch for SECUTEST BASE(10)/	FRANCE	77000
n Switzerland	PRO-CH	GTZ3225000R0001	PRO/SECULIFE ST BASE	F2000 D	Z700D
			Carrying pouch big for tester sets	F2020	Z700F
Adapter for testing welding units			Universal carrying pouch with flexible di-		
Test adapter in combination with			vider and display protection for SECUTEST BASE(10)/PRO/SECULIFE ST BASE	F2010	Z700G
SECUTEST for testing welding units per			Plastic system case	SORTIMO L-BOXX	Z503D
DIN EN 60974-4:2007.			Foam insert for SORTIMO L-BOXX with di-	SUNTIMU L-DUXX	20000
The peak-value rectifier in the SECULOAD-			vider for SECUTEST BASE(10)/PRO/SECU-	Foam SORTIMO	
N uses the 1N4007 rectifier diode recom- 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			·····	h,	
range of the line frequency, or voltage					
sources with conventional transformer.					
ncludes 4 measurement cables and 2 alli-					
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		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
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	Z751B
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	21210	
paper, Ø 12/50mm, 30 m x 112 mm, coat-		
ing outside	Z722S	Z722S
	21220	21220
Soo also congrato ID systems data aboat ra	aarding PEID coope	ore bareada cooppor
See also separate ID systems data sheet re and printers.	galuing REID SCann	ers, parcoue scanners
מות אווונפוס.		

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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