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- Integrated test sequences for quickly testing operating equipment (preconfigured standards-compliant series of individual tests with subsequent documentation)
- Suitable for use by trained persons
- Quick access to measuring and test functions via the double rotary switch, direct selection keys and softkeys
- Automatic detection of DUT connection and protection category
- Unique multiple measurement permits convenient recording of several measuring points.
- Testing of various types of PRCDs such as PRCD-S and PRCD-K via integrated test sequences (including protective conductor resistance measurement for variants with switched PE as well)
- Comprehensive, legally secure preparation of test reports
- Extensive data management and storage concept for test results and single measurements (up to 50,000 data records*)

 allocation of measurements/tests to devices and customers USB interfaces for data entry and transmission
- High-resolution, brilliant 4.3" TFT color display
- Compact, impact resistant housing with integrated rubber protector
- Extensive setting options for international use (language, keyboard, character set, date, time)



- Remote control via PC (IZYTRONIQ) is possible.
- Up to 24 user-defined test sequences (up to a total of 1200 test steps) can be created in IZYTRONIQ and uploaded to the test instrument.
- Additional database elements:
 - Property, building, floor and room
 - for better structuring of large data sets
 - Department and cost center
 - Individual test interval for each test object
- Multi-print print out 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 test instrument, including company logo
- Export all data (master data and measured value) as a file to a USB flash drive
- Import all test object master data (no measured values) to the test instrument from IZYTRONIQ, or from a USB flash drive





SECUTEST DB COMFORT database expansion (Z853S or feature KD01)

- Additional database elements:
 - Medical test object for medical DUTs, with extended entry options
 - Individual test interval for each test object
- **Touch-Edit** editing can be started by pressing and holding the detail view of a test object in the main screen.
- Searches started with the **"Search All" softkey** scan the new "UDI" field (unique device identification) for medical devices as well.
- Move test objects "moving" (medical) devices within the tree can be initiated by pressing and holding the respective element in the tree display.
- QuickEdit when setting up a new DUT, not only can the ID be entered all other fields can also be filled in at the same time as well.
- Auto-Store results of automatic test sequences are saved immediately under the selected test object.
- **Push-Print** send data directly to the PC (IZYTRONIQ) (data are not stored at the instrument).

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

Included Features

Measuring Functions

Switch Position	Measu Test Cu	ring Function rrent/Voltage	Meas. Type, Connection Type
Single I	measure	ements, rotary switch level: green	
Rpe	R _{PE} I	Protective conductor resistance Test current (200 mA) SECUTEST ST BASE10/PRO & SECULIFE ST BASE: 10 A ¹ (feature G01) & SECULIFE ST BASE25: 25 A ¹ (feature G02)	PE(TS) - P1 passive PE(TS) - P1 active PE(mains) - P1 PE(mains) - P1 clamp ² P1 - P2 ³
Rins	R _{INS} U _{INS}	Insulation resistance (PC I/PC II) Test voltage	LN(TS) - PE(TS) LN(TS) - P1 P1 - P2 ³ PE(mains) - P1 PE(TS) - P1 LN(TS) - P1//PE(TS)
IPE	I _{PF~}	Protective conductor current, RMS	Direct
		AC component	Differential
		DC component	Alternative
		Test voltage	AT3-Adapter ²
l +	1	Touch ourront DMS	Direct
	<u>ч~</u> L		Differential
	י ~ 		Alternative (P1)
	•!=		Permanent conn.
	ULN		Alternative (P1–P2)
le	I _E ∼	Device leakage current, RMS	Direct
	I _{G~}	AC component	
	I _{E=}	DC component	AT3-Adapter ²
	U _{LN}	lest voltage	Clamp ²
IA	$I_{A\simeq}$	Leakage current from the applied part, RMS	Direct (P1)
	U _A	Test voltage	Alternative (P1) Perm. conn. (P1)
IP	I _{P∼}	Patient leakage current, RMS	
	I _{P~}	AC component	Direct (P1)
	I _{P=}	DC component	Perm. conn. (P1)
	U _{LN}	Test voltage	
U	U <u>~</u>	Probe voltage, TRMS	PE - P1
	U~	Alternating voltage component	PE - P1 (with mains*)
	U_	Direct voltage component	* Polarity setting
	U <u>~</u>	Measuring voltage, TRMS ²	V – COM
	U~	Alternating voltage component 2	V – COM (with mains)
	U	Direct voltage component 2	
tprcd 4	ta	PRCD time to trip for 30 mA PRCDs	
D	ULN	Line voltage at the test socket	
Р	Functio	On test at the test socket	-
	1	Current between L and N	-
	U	Voltage between L and N	Delerity eetting
	T D	Active power	Folding Setting
	r c	Active power	
	DE	Power factor	-
Snecial	measu	ring functions	
FI 1	Extensio	n cord with adapter.	FL1 adapter
	continuit	y, short-circuit, polarity (reversed wires ⁵)	EL1 adapter (continuity only) AT3-IIIE adapter VL2E adapter
EXTRA	Reserve	d for extensions within the framework of soft	ware updates
	°C Tem	perature measurement ² with Pt100/Pt1000	V – COM
	IZ Curre sens	ent clamp measurement with current clamp or	V – COM

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

 ² Voltage measuring inputs only with test instruments including feature I01 (e.g. SECUTEST ST PRO and SECULIFE ST BASE(25))
 ³ Connection for 2nd test probe for two-pole measurement with test instrument

- ³ Connection for 2nd test probe for two-pole measurement with test instrument including feature H01 (e.g. SECUTEST ST PRO or SECULIFE ST BASE(25)) ⁴ Measurement of time to trip isn't possible in IT systems.
- ⁵ No checking for reversed wires takes place when the EL1 adapter is used. Kov:

100.	
Alternative	= alternative measurement (equivalent leakage
	current measurement)
Differential	 differential current measurement
Direct	= direct measurement
LN(TS)	= short-circuited L and N conductors at test socket
P1	= measurement with test probe P1
P1-P2	= 2-pole measurement with test probes P1 and P2
PE-P1	= measurement between PE and test probe P1
PE(TS)	= protective conductor at the test socket
PE(máins)	= protective conductor at the mains connection

Integrated Test Sequences

The test instrument includes preconfigured, integrated test sequences. The integrated test sequences can be used to comply with the following standards:

- VDE 0701-0702 / ÖVE E 8701 / SNR 462638 Ilnspection after repair, modification of electrical appliances – Periodic inspection on electrical appliances
- IEC 62353 / EN 62353 / VDE 0751-1 Medical electrical equipment – Recurrent test and test after repair of medical electrical equipment
- IEC 60974-4 / EN 60974-4 / VDE 0544-4 Arc welding equipment Part 4: Periodic inspection and testing
- NEN 3140
 Dedrivite version ven del triache installation
- Bedrijfsvoering van elektrische installaties Laagspanning EN 50678 / VDE 0701

General procedure for verifying the effectiveness of the protective measures of electrical equipment after repair

- EN 50699 / VDE 0702
 Recurrent Test of Electrical Equipment
- IEC 62368 / EN 62368 / VDE 0868-1 Audio/video, information and communication technology equipment
- IEC 62911 / EN 62911 / VDE 0868-911 Audio, video and information technology equipment – Routine electrical safety testing in production

Availability of the individual integrated test sequences depends on the test instrument type (SECUTEST ST... or SECULIFE ST...), the selected features (order features) and the enabled extensions (activations).

The integrated test sequences are run in the orange rotary switch position. They're freely assignable, i.e. they can be individually assigned to the rotary switch positions (because there are more integrated test sequences than rotary switch positions).

The test instrument is preconfigured upon delivery and its configuration depends on numerous factors. Due to the great variety of possible combinations, listing them would go beyond the scope of this data sheet and has therefore been omitted.

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 calculate measured values for the leakage current measurement.

Automatic Detection of Mains Connection Frons

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 Mains Connection Error	Message	Condition	Measurements
Voltage at protective conductor PE to finger contact (START/STOP key)	Display	Press START / STOP key U > 25 V key \rightarrow PE: < 1 M Ω^2	All measurements disabled
Protective conductor PE and phase conductor L reversed and/or neutral conductor N interrupted		Voltage at PE > 100 V	Not possible (no supply power)
Line voltage < 180 V / < 90 V (depending on mains)		$U_{L-N} < 180 V$ $U_{L-N} < 90 V$	Possible under certain circum- stances ¹
Test for IT/TN system	Display	$\begin{array}{c} \text{Connection} \\ \text{N} \rightarrow \text{PE} > 20 \text{ k}\Omega \end{array}$	Possible under cer- tain circumstances

ts are only possible with line voltages of 115/230 V and 0/25 A R_{PF} measurem line frequencies of 50/60 Hz.

If the user of the test instrument is too well insulated, the following error message may appear: "Interference voltage at PE'

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:

Test Function		Condition				
Short-circuit testL-N	Short-circuit / DUT starting current	$R \leq 2.5 \; \Omega$				
	No short-circuit (AC test)	$R > 2.5 \Omega$				
Open-circuit voltage U ₀ 4.	3 V, short-circuit current $I_{\rm K}$ < 250 mA					
Short-circuit testLN-PE	Short-circuit	$R \leq 2 \ k\Omega$				
	No short-circuit (AC test)					
Open-circuit voltage U0 23	30 V AC, short-circuit current $\rm I_K < 1.5~mA$					
On test	On (DUT passive)	$R < 250 \text{ k}\Omega$				
	Off (DUT active)	$\textrm{R} > 300 \text{ k}\Omega$				
Open-circuit voltage U ₀ 23	30 V AC, short-circuit current $\rm I_K < 1.5~mA$					
Switchable control	Mains power switched on automatically	$R > 500 \ \Omega$				
	Popup (switch off DUT first)	${\rm R} < 500~\Omega$				
Probe test	No probe	$R>2~M\Omega$				
	Probe detected	$R < 500 \text{ k}\Omega$				
Protection class detectio	n (only with country specific variant 1)					
	Protective conductor found: PC I	$R < 1 \Omega$				
	No protective conductor: PC II	$R > 10 \Omega$				
Safety shutdown						
Triggered at following resi	dual current value (selectable)	> 10 mA $/ > 30$ mA				
Triggered at following pro	be current values For leakage current measurement	> 30 mA ²				
During pro	tective conductor resistance measurement	> 250 mA				

Test Function		Condition					
Connection test (or	Connection test (only with country specific variant ¹)						
Checks whether the	DUT is connected to the test socket.						
	DUT power cable found	$R < 1 \Omega$					
	No DUT power cable	$R > 10 \Omega$					
Insulation test	Insulation test DUT set up in a well-insulated fashion						
	DUT set up in a poorly insulated fashion	$\textrm{R} < 500 \textrm{ k}\Omega$					
PE mains – PE sock	tet: Open-circuit voltage U_0 50 V DC, I_K < 2 mA						
Overcurrent protect	tion						
Shutdown in the event at:Our SECUTEST ST E ments permit active te up to 16 A. The test so with 16 A fuses to this is also 16 A. Starting c objects for which a sta we urgently recommer rents, e.g. a test adapt	t of a continuous flow of current via the test socket BASE10/ PRO and SECULIFE ST BASE(25) test instru- isting of devices with nominal current (load current) of ocket on the respective test instrument is equipped end, and the switching capacity of the internal relays current of up to 30 A is permissible. In the case of test arting current of greater than 30 A can be expected, and the use of a test adapter for larger starting cur- ter from the AT3 series.	I > 16.5 A					

Applies to M7050 with feature B00, B09 ² Firmware version 3.2.0 and lower: 12 mA

Features

The test instruments are available with various features. These can be selected when placing an order. The basic instruments include the following features:

	Features	SECUTEST ST BASE	SECUTEST ST BASE10	SECUTEST ST PRO	SECULIFE ST BASE	SECULIFE ST BASE25
Touchscreen / keyboard	E01			•	•	•
10 A RPE test current	G01		•	•	•	
25 A RPE test current	G02					٠
2 nd test probe	H01			•	٠	•
Voltage measuring input *	101			•	•	•
Integrated test sequences for EN 50678 / VDE 0701, EN 50699 / VDE 0702, IEC 62368 / EN 62368 / VDE 868-1, IEC 62911 / EN62911/ VDE 868-911	KE	•	•	•	•	•
SECUTEST DB+	KB01	0	0	•	٠	•
SECUTEST DB COMFORT	KD01	0	0	0	0	•
Bluetooth®	M01					
Antimicrobial housing	—				•	•

For voltage measurement or for connecting a current clamp sensor or an AT3 adapter, and for temperature measurement via RTD

• Included, Optional Key:

Detailed information regarding features and accessories can be found under "Order Information" on page 12.

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.

Creating a Database

A test structure with data regarding customers and test objects can be created in the test instrument. This structure makes it possible to save 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".

Medical devices can be entered as test objects (Medical Device) with the SECUTEST DB COMFORT database expansion (Z853S or feature KD01), and individual test dates can be assigned to all test objects.

The SECUTEST DB+ database expansion (Z853R or feature KB01) extends the structure to include buildings, floors and rooms. Furthermore, the test structure can be set up conveniently at a PC with the help of IZYTRONIQ software (see "IZYTRONIQ Software" on page 4), and subsequently transferred to the test instrument.

Logging Functions

All of the values required for approval reports or device logbooks for electrical DUTs (e.g. per ZVEH) can be measured and stored with the test instrument. A due date for the next test is also determined.

Measurement data can be documented and archived thanks to the measurement and test report that can be printed with a thermal printer which has been connected to the USB port, or stored to a USB flash drive as an HTML report (see "Data Interfaces" on page 4).

Alternatively, stored measurement data can be transferred to IZY-TRONIQ software (see "IZYTRONIQ Software" on page 4) in order to archive the data, add comments and create reports.

IZYTRONIQ Software

Suitable, database-driven test software is available, namely IZY-TRONIQ. This software facilitates test organization and the management of test data from a broad range of test instruments. It also provides extended functions such as remote control in connection with the respective test instrument – support for extended functions depends on the test instrument and its order features or enabled extensions (activations).

The software is included with test equipment sets (see "Order Information" on page 12). 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 IZYTRONIQ separately. Detailed information can be found on our website:

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



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 schematics and wiring diagrams appear. Sample screenshots are shown on the next page. 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 via a displayed softkey keyboard or a convenient touch screen for test instruments including feature E01 (e.g. SECUTEST ST PRO and SECULIFE ST BASE(25)). The menu is controlled via softkeys.

Compatible barcode readers, RFID scanners, USB keyboards and printers can also be connected via USB.

Data Interfaces

The test instrument is equipped with USB interfaces which can be used for various purposes:

• Structures set up in, and measurement data saved to the test instrument can be transferred to IZYTRONIQ database software.

Data can then be archived in the program, comments can be added and reports can be generated.

- Connection of compatible external input and output devices (see "Data Entry" on page 4)
- Data backup and restore with USB flash drive
- Report printing to USB flash drive or external printer

In the case of test instruments with Bluetooth[®] (feature M01), data can thus be transmitted to IZYTRONIQ and the push-print function can be used.

Updates

The test instrument is future-proof because firmware/software updates are released on a regular basis.

Scope of Delivery

The scope of delivery varies depending on which test instrument variant has been ordered, and is country-specific. Information concerning the scope of delivery can be found under "Order Information" on page 12.

Backlit Multi-Display Samples

Single Test – Initial Screen with Parameters Display



Help – Schematic and Wiring Diagram



Database Structure – Customer List



Test Sequence – Start (EN 50699 / VDE 0702)

VDE 0702			X
Active	Test socket		
Test result	Ready for next test!		
D	gmc-702	J	
Description	device 2		
Туре			
Manufacturer			ID.
Serial number			
Comment			

Test Sequence – Test Results (EN 50699 / VDE 0702)

VDE 0702			
🔲 VDE 0702		11/05/2022 02:42:0)7 PM 🗸
DUT passed			
Short Circuit Che	ck (L-N).		\checkmark
Vis. Insp.			~
RINS PC II	>= 2.00 MΩ	> 300 MΩ	\checkmark
IT NL	<= 500 μA	0 μΑ	~
IT LN	<= 500 μA	1 µA	~
Functiontest			œ.

Test Sequence - Start (EN 50678 / VDE 0701)

EN 50678			X
Active	Test socket	۵	
Test result	Ready for next test!		
D	gmc-702		
Description	DAB radio		
Туре	DAB 2405		
Manufacturer	Karcher		
Serial number			
Comment			

Test Sequence - Function Test

Func	tiontest			ţ	N		
No со	mment entered!	A	Р	max:	0.00 O	∧ ₩	
U	237.0	۷	S		0	VA	R
f	50.0	Ηz	PF	1.	00		
	\checkmark		P	4anual rai	ing		

Test Sequence – Visual Inspection

vis. Insp.	Visual inspection 1/7	$ \bigtriangleup $
No comment ente	ered!	
>	No damage or contamination	
✓ ^{All cables}	and connectors fulfil the requirements of their intended use	
		1
Condit	ion of the mains plug and the mains onnectors and conductors is ok	

Test Sequence - IPE Measurement (IEC 62368 / EN 62368 / VDE 0868-1)

IPE AC NL			Ϋ́Ν	
I _{PE~}	0 μA	۷ Ii	vc: 0μΑ im:≤5.00mA	
I _{PE≃}	0μΑ			
		ULPE	234.7 V	
Test cond.	None	SFC	Normal cond.	
Direc	t		-22	

Test Sequence - Test Result (IEC 62368 / EN 62368 / VDE 0868-1)

EC 62368			2
🔲 IEC 62368		11/05/2022 03:1	9:18 PM 🗸
DUT passed			
Vis. Insp.			
RPE (0)			A .
IPE AC NL	<= 5.00 mA	0 μΑ	Image: A start of the start
IPE DC NL	<= 25.0 mA	0 μΑ	
IPE AC LN	<= 5.00 mA	0 μΑ	
IPE DC LN	<= 25.0 mA	0 μΑ	
Functiontest			@ 🔪

Characteristic Values

F	Manager	Display Range/	Deer	Nominal	Open-	Nom.	Short-	Internal	Refer- ence		In their site	Ove Cap	rload acity
tion	Measured Quantity	Nominal Range of Use	Reso- lution	Voltage U _N	Voltage U ₀	Current I _N	Circuit Current I _{SC}	Resis- tance R _I	Resis- tance R _{BEE}	Measuring Uncertainty	Uncertainty	Value	Time
		1 999 mΩ	1 mΩ				>					264 V	
Protect	Protective	1.00 9.99 Ω	10 mΩ				AC / DC			±(15% rdg.+ 10 d)		250 MA	Cont.
	conductor		-		< 24 V	_	> 10 A AC	_	_	> 10 d	$\pm (10\% \text{ rdg.} + 10 \text{ d})$	16 A ⁵	
	RPE	10.0 27.0 Ω	100 mΩ		AC OF DC		> 35 A AC 11)			±(10% rdg.+ 10 d)	> 10 u	> 42 A A C 11)	15 s
		10 … 999 kΩ	1 kΩ							±(5% rdg.+ 4 d)	±(2.5% rdg.+2 d)		
	Insulation resistance ⁹	1.00 9.99 MΩ	10 kΩ	50 500	1.0 • U _N	> 1 mA	> 2 mA	_	_	> 10 d	> 10 d	264 V	Cont
	Rins	10.0 99.9 MΩ	100 kΩ	V DC	1.5 ● U _N	2 1 1101	2			\geq 20 M Ω :	$\geq 20 \text{ M}\Omega$:	2011	oond
		100 300 MΩ	1 MΩ							±(10% rdg.+ 8 d)	±(5% rdg.+4 d)		
	Leakage	0 99 μΑ	1 μA		50								
sts	alternative	100 999 μA	1 μA		50 250 V~	_	< 1.5 mA	> 150 kΩ	1 kΩ	\pm (5% rdg.+ 4 d) > 10 d > 15 mA:	\pm (2% rag.+2 d) > 10 d > 15 mA:	264 V	Cont.
Tes	measurement ²	1.00 9.99 MA	10 μΑ		- 20/+10%				$\pm 10 \Omega$	±(10% rdg.+ 8 d)	±(5% rdg.+ 4 d)		
	IPE, IT, IE, IA	10.0 30.0 mA	100 µA										
	Leakage	lp only: 0.0 99.9 μΑ	100 nA										
	current, direct	0 99 μΑ	1 µA		_	_		1 kΩ	1 kO	±(5% rdg.+ 4 d)	±(2.5% rdg.+2 d)	264 V	Cont
	measurement ³	100 999 μA	1 μA					±10 Ω		> 10 d	> 10 d	204 V	oont.
	IPE, IT, IE, IA, IP	1.00 9.99 mA	10 µA										
	Laskana	10.0 30.0 MA	100 μA										
	current.	100 99 μΑ	1 μΑ										
	differential	1 00 9 99 mA	10 μA	10 µA						±(5% rdg.+ 4 d)	±(2.5% rdg.+2 d)	264 V	Cont
	current measurement ⁴ IPE, IT, IG	10.0 30.0 mA	100 μA							> 10 d	> 10 d	204 V	cont.
cket	Line voltage U _{L-N} ¹⁰	100.0 240.0 V~	0.1 V	_	_	_	_	_	_	_	±(2% rdg.+2 d)	264 V	Cont.
tSo	Load current I_{L}	0 16.00 A _{RMS}	10 mA	—	—	_	—	—	—	_	±(2% rdg.+2 d)	16 A	Cont.
Tes	Active nower P	0 3700 W	1 W		_			_	_		±(5% rdg.+10 d)	264 V	Cont.
the		0 0700 W									> 20 d	20 A	10 min
fest at	Apparent power S	0 4000 VA	1 VA			Calo	culated valu	ie, U _{L-N} • I _V	1		\pm (5% rdg.+10 d) > 20 d	264 V	Cont.
unction]	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 f	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.
'nt	Probe voltage	0.0 99.9 V						0.110			1/00/ al - 0.1	00414	
eme	(probe PT to PE)	100 264 V						3 MC2			±(2% rag.+2 a)	264 V	
ige Measur	Measuring voltage	0.0 99.9 V	100 mV 1 V	_	_	_	_	1 MΩ		_	\pm (2% rdg.+2 d) > 45 Hz 65 Hz \pm (2% rdg.+5 d)	300 V <u></u> , ∼	Cont.
Volta	(v-∪∪ivi sockets °) , ~ and ≂	100 300 V									= 505 Hz 10 KHZ ±(5% rdg.+5 d) > 10 kHz 20 kHz	and 😎	
	Leakage current	0.00 0.99 mA \sim	0.01 mA								±(2% rda.+2 d)		
Leaka	via AT3-IIIE	1.0 9.9 mA \sim	0.1 mA	_	-	_	_	—	_	_	> 10 d	253 V	Cont.
ge	auapitri 21400 "	10 20 mA \sim	1 mA								without adapter		
Tome	Temperature, Pt100 sensor	- 200.0 + 850.0 °C	0.1.00		< 00 V		11				±/00/ rda . 1.00)	10.1	Cont
Temp	Temperature, Pt1000 sensor	− 150.0 +850.0 °C	0.1 °C	_	< 20 V		1.1 MA			_	±(2% iug.+1 °C)	IUV	CONT.

Func-	Measured	Display Range/	Reso-	Nominal	Open- Circuit	Nom.	Short- Circuit	Internal Resis-	Refer- ence Resis-	Measuring	Intrinsic	Ove Cap	rload acity		
tion	Quantity	Use	lution	U _N	Voltage U ₀	I _N	Current I _{SC}	tance R _l	tance R _{REF}	Uncertainty	Uncertainty	Value	Time		
	Current via	1 99 mA ~	1 mA (1 mV)												
	current clamp sensor	0.1 0.99 A ~	0.01 A (10 mV)		—	_		—	_	_					
	(V-COM sockets ^{6, 7})	1.0 9.9 A ~	0.1 A (100 mV)												
		10 300 A ~	1 A (1 V)												
	Current via	0.1 9.9 mA ~	0.1 mA (1 mV)												
	current clamp	10 99 mA ~	1 mA (10 mV)							_					
	[10 mV : 1 mA]	0.10 0.99 A ~	0.01 A (100 mV)			_	_	_		—					
ام		1.0 30.0 A ~	0.1 A (1 V)								\pm (2% rdg.+2 d) > 10 d	253 V	Cont		
Clamp	Current via	0.01 0.99 mA \sim	0.01 mA (1 mV)								20 Hz 20 kHz without clamp	200 V	oont.		
	current clamp	1.0 9.9 mA \sim	0.1 mA (10 mV)				_			_					
	[100 mV : 1 mA]	10 99 mA \sim	1 mA (100 mV)												
	(* 001113001013)	0.10 3.00 A \sim	0.01 A (1 V)												
	Current via	1 99 µA ~	1 µA (1 mV)												
	current clamp	0.10 0.99 mA ~	0.01 mA (10 mV)				_			_					
	[1000 mV : 1 mA] (V-COM sockets ^{6, 7})	1.0 9.9 mA \sim	0.1 mA (100 mV)												
	(10 300 mA ~	1 mA (1 V)												

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

- Protective conductor current, touch current, device leakage current, patient leakage current
- Protective conductor current, touch current, device leakage current 5 Only with feature G01 (e.g. SECUTEST ST BASE10/SECUTEST ST PRO and SECULIFE ST
- BASE)
- 6 Only with feature I01 (e.g. SECUTEST ST PRO and SECULIFE ST BASE)
- 8
- Measurement types IPE_clamp and IE_clamp Measurement types IPE_AT3 adapter and IE_AT3 adapter 9
- The upper range limit depends on the selected test voltage.

¹⁰ Voltage at the test socket may be lower than measured line voltage due to components which limit inrush current ¹¹ Only with feature G02, e.g. SECULIFE ST BASE25

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

Testing Times, Automatic Sequence

Testing times ("measurement duration" parameter) can be set separately for each rotary switch position during configuration of the sequence parameters. Testing times are neither tested nor 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 does not take place during leakage current measurement with clamp meter 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 per 10 K temperature change		
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		
Measured current waveform				
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

Line voltage Line frequency Waveform

Ambient temperature

Relative humidity

Load resistors

230 V AC ±0.2% 50 Hz ±2 Hz Sine (deviation between RMS and rectified values < 0.5%) +23 °C ±2 K 40 ... 60% Linear

Nominal Ranges of Use

Nominal nallyes of use			EN 61000	-4-4 N	lains conr	nection – 2 kV	В
Nominal line voltage	90 V 264 V	AC	EN 61000	-4-5 N	lains conr	nection – 1 kV (LN), 2 kV (LPE)	В
Nominal line frequency	50 Hz 400 H	Ηz	EN 61000	-4-6 N	Aains conr	nection – 3 V	A
Line voltage waveform	Sinusoidal		EN 61000	-4-8 3	80 A/m		А
Temperature	0 °C + 40 °	O	EN 61000	-4-11 0)%: 1 perio	bd	В
				0)%: 250/3	00 periods	С
Ambient Conditions				4	0%: 10/1	2 periods	С
Storage temperature	– 20 °C + 6	60 °C		7	'0%: 25/3	0 periods	С
Relative humidity	Max. 75%, no	condensation allowed	USB Data	Port			
Elevation	Max. 2000 m		Type	USB sl	lave for	PC connection / remo	te control**
Place of use	Indoors, excep	t within specified ambient	Туре	2 ea. L	JSB ma	ster for data entry dev	ices* with HID
Power Supply				boot in	Iterface	, drive for data bookura	
Supply network	TNI TT or IT			for US	B flash	drive for data backup, drive for saving reports	as HTML files
Line voltage	90 V 264 V	AC		for prin	D 112511	unve for saving reports	as i i ivil illes,
Line frequency	50 Hz 400 H		* See the	following pa	age for co	mpatible devices	
Power consumption	200 mA DI IT.	Approx $32 \sqrt{4}$	** Remote	control only	with exte	nsion: "Remote Control via Po	C (IZYTRONIQ)" (includ-
rower consumption	10 A test	Approx 105 VA	ed as st	andard featu 7853B or fea	ure with S	ECUTEST ST PRO and avail	able with SECUTEST
	25 A test:	Approx. 280 VA	DD+ - 2	20001101164		1).	
Mains to test socket	2071000		Bluetooth	® data inte	erface 2	.1 + EDR	
(e.g. during function test)	Continuous m	ax. 3600 VA, power is con-	(test instr	uments wi	ith featu	re M01 only)	
(0 0)	ducted throug	h the instrument only,	Froquon	ov rando	N/	ax - 2.5 m/M (class II)	
	switching capa	acity \leq 16 A, ohmic load,	Tranamic	cy range		ax. 2.3 IIIV (class II)	
	the AT3-IIS32	(Z745X) adapter (for exam-	Transmis	sion inter	ISILY 24	100 2403.3 IVINZ	
Electrical Safety	ple) can be us	ed for current > 16 A AC	Mechanic	al Design			
			Display		4.	3" multi-display (9.7 x {	5.5 cm),
Protection class	I per EN 6114	0			ba	acklit, 480 x 272 pixels	<i>,</i> .
Nominal voltage	230 V				at	24-bit color depth (tru	e color)
Test voltage	2.3 kV AC 50	Hz or 3.3 kV DC	Dimensi	ons	W	× H × D: 295 × 145 ×	150 mm
	(mains circuit / t	est socket to mains PE termi-			He	eight with handle: 170	mm
	nai, USB, linger		Weight		SE	ECUTEST ST BASE(10)/PRO: approx.
Measuring category	Designed for a				2.	5 kg	
	(but reduced t	o 250 V CAT II through the			SE	ECULIFE ST BASE25:	approx. 4.0 kg
	use of luses ic	increased user salety. The			(d	epending on test instru	iment version)
	renlacements	are easily obtainable)	Protectio	on	Ho	ousing: IP 40 (protectio	n against ingress
Pollution degree	2				TO	solid foreign objects ≥	1.0 mm diameter,
Safety shutdown	At DLIT differe	ntial current of $> 10 \text{ mA}$				protection against ing	ction against
Galoty Ghataown	shutdown time	e: < 500 ms.			ind	aress of solid foreign of	hiects > 12.5 mm
	can also be se	at to > 30 mA.			di	ameter no protection a	against ingress of
	with following	probe current during:			Wa	ater) (per EN 60529)	igen for inighteet of
	– Leakage curr	ent measurement:			SE	ECULIFE ST BASE(25):	
	> 30 mA ¹ ~/< 5	600 ms			Ho	ousing with antimicrobia	l properties per JIS
	 Protective co 	onductor resistance			sta	andard Z 2801	
	measuremen	חנ:	Databaco				
	> 250 mA~/		Niurala	of elc+-			
Europe Barbar	In case of con	$C_{1} = \frac{1}{2} \sum_{i=1}^{2} \frac{1}{2} \sum_{i=1}^$	Number	of data re	ecords	50000 (1 data record	I = I DUI Or
FUSE IINKS	IVIAINS TUSES:	2 ea. FF 500V/16A				mode uromont)	
	TIODE IUSE:	IVI 2007/2000A				measurennenn)	
	1 Pa FF 5001	//16 Δ	Regulation	ns and stan	dards in	accordance with which the	e test instrument is
			manufact	ured and te	sted:		
Firmware version 3.2.0 ar	iu iower: 12 MA		EN 61010-	1 Safet	v requiren	nents for electrical equipment for	or measurement, control

EN 60529/

EN 61326-1

EN 61326-2-2

EN 61557-16

Electromagnetic Compatibility

Product standard DIN EN 61326-1 DIN EN 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)	A

and laboratory use - Part 1: General requirements

EMC requirements - Part 1: General requirements

Degrees of protection provided by enclosures (IP code)

Electrical equipment for measurement, control and laboratory use -

Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-2: Particular requirements – Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications

Electrical safety in low voltage distribution systems up to 1000 V AC and 1500 V DC – Equipment for testing, measuring or monitoring of protective measures – Part 16: Devices for testing the effectiveness of protective measures of electrical devices and/or electrical medical devices

Test instruments and test procedures

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 12.

Barcode Scanner (Z751A)

For reading 1 and 2D codes, for example barcodes and QR codes. This makes it possible to conveniently insert the ID numbers of DUTs into single measurements and test sequences. This device is based on 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 connected via USB.



Barcode Printer (Z721E)

For printing barcode labels: Code39, Code128, EAN13, text, QR Code*, Micro QR Code, DataMatrix, Aztec. The device is connected via USB.



Thermal Printer (Z721S)

For printing test reports on thermal paper (accessory Z722S). The device is connected via USB.

SCANBASE RFID (Z751E) (RFID reader/writer)

Compact device for reading and writing RFID tags (13.56 MHz transponder in accordance with ISO 15693). The device is connected via USB.



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

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 attachment 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, alternative 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 and 3-phase plug connectors up to CEE 32A for the performance of measurements and tests at electrical devices and extension cords with CEE plug connectors.



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

Devices which are equipped with a 5-pole, 16 A / 6 h CEE plug can be quickly and efficiently tested with the AT16-DI CEE adapter. The following tests can be performed on devices with **CEE** plugs with the help of the AT16-DI CEE adapter:



- Testing of protective conductor continuity
- Insulation resistance, alternative leakage current (equivalent leakage current)
- Measurement of protective conductor resistance with the following methods: equivalent leakage current / residual 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.

AT3-III-E 3-Phase Current Adapter (Z745S)

Test adapter for active and passive testing of single and three-phase electrical devices and extension cords in conjunction with the test instrument.

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 default residual current value is exceeded.

EL1 Adapter for Testing Single-Phase Extension Cords (Z723A)



SECULOAD-N Test Adapter (Z745R)

Test adapter for testing open-circuit voltage at welding units per IEC 60974-4 / EN 60974-4 / VDE 0544-4.

In combination with a test instrument, the test adapter is used for testing welding units per



IEC 60974-4 / EN 60974-4 / VDE 0544-4. This standard stipulates that peak values for open-circuit voltage may not exceed the limit values, regardless of the utilized settings.

A test sequence for testing welding units with the help of this adapter is integrated into the test instrument.

The peak-value rectifier in the SECULOAD-N uses the 1N4007 rectifier diode recommended in the standard. This is a mains rectifier diode which, due to its design, is only suitable for voltage sources with low cycle rates within the range of the line frequency, or for voltage sources with conventional transformer.

SECU-cal 10 Calibration Adapter (Z715A)

The calibration adapter is used for testing the measuring uncertainty of test instruments in accordance with DIN EN 61557-16 / VDE 0413-16 (previously DIN VDE 0404). As a rule, these instruments must be tested once each year, as



well as for certification in accordance with the ISO 9000 quality standard, as set forth by DGUV accident prevention regulation 3. All limit values for the required tests per DIN VDE such as protective conductor resistance, insulation resistance, equivalent leakage current, differential and/or touch as well as housing leakage current, must be tested.

SORTIMO L-BOXX (Z503D)

Plastic system case, outside dimensions: $W \times H \times D$ $450 \times 255 \times 355$ mm

Z701D foam insert for test instrument and accessories must be ordered separately (see below).



Foam Insert for SORTIMO L-BOXX (Z701D)

Foam insert for test instrument and accessories.



F2030 System Soft-Case (Z700H)



Outside dimensions: $W \times H \times D$ $393 \times 275 \times$ 248 mm (without handle and carrying strap)

F2000 Universal Carrying Pouch (Z700D)



dimensions: $W \times H \times D$ $380 \times 310 \times 200 \text{ mm}$ (without buckles, handle or carrying strap)

Outside





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

Further information regarding accessories can be found:

- In our Measuring Instruments and Testers catalog
- On the Internet at <u>www.gossenmetrawatt.com</u>





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

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

	1	
Standard	Article No.	Features
Models		
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 M707A but with 10 A protective conductor test current, with touchscreen, voltage measuring inputs, connection for 2 nd test probe and SECUTEST DB+ database expansion
SECUTEST ST PRO BT comfort	M707C	Same as M707B but with Bluetooth [®] port and SECUTEST DB COMFORT database expansion
Included with each inst and SECULIEE ST BASE(2	rument: Mains	power cable, test probe, USB cable, plug-on alligator clip, KS17-ONE cable set for voltage measuring inputs (only with SECUTEST ST PRO

and SECULIFE ST BASE(25)), travel adapter for international power supply, condensed operating instructions in printed format (complete operating instructions available for download from Internet), **DAkkS calibration certificate** in German, English and French, **IZYTRONIQ BUSINESS Starter** database and report generating software for PC (as registration card for access to download from the Internet)

Instrument Sets

Туре	Designation					Article No.
Starter Package SECUTEST ST BASE	See scope of delivery below. Including IZYTRONIQ BUSINESS ADVANCED					M708A
PRO 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	PRO 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 × ■	Z503D
Foam SORTIMO L-BOXX Secutest4	Foam insert for SORTIMO L-BOXX with compartments for test instrument and accessories					Z701D
FOAM SORTIMO L-BOXX Adapter	Foam insert for SORTIMO L-BOXX with compartment for adapter					Z701E
EL1	Adapter for testing single-phase extension cords					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 IEC 60974-4 / EN 60974-4 / VDE 0544-4					Z745R
AT16-DI	3-phase 16 A differential current adapter					Z750A
PC2	Probe with test tip 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 for 1 and 2D codes (e.g. barcodes and QR codes), with USB connection					Z751A
		Key: Inc	luded 🗖 C	ptional		

Including DB+ database expansion

Order Features

Basic Instrument Artic	Basic Instrument Article Number				M7050					
Device Variants			SECUTEST ST BASE (M7050 AA06 E00 G00 H00 100 J00 KB00 M00)	SECUTEST ST BASE10 (M7050 AA07 E00 G01 H00 100 J00 KB00 M00)	SECUTEST ST PRO (M7050 AA08 E01 G01 H01 101 J00 KB01 M00)	SECULIFE ST BASE (M7050 A01 AA11 E01 G01 H01 101 J00 KB01 KC00 M00)	SECULIFE ST BASE 25 (M7050 A01 AA12 E01 G02 H01 I01 J00 KB01 KD01 M00)			
		Feature Ψ	AA06	AA07	AA08	AA11	AA12			
Connections – country	-specific mains plug and test socket	1								
	Germany with detection of connection and protection categories	B00								
	UK	B01	\triangleright	\triangleright	\triangleright	\triangleright	\triangleright			
	FR/CZ/PL	B03	\triangleright	\triangleright	\triangleright	\triangleright	\triangleright			
	China	B04	\triangleright	\triangleright	\triangleright	\triangleright	\triangleright			
	USA	B05	\triangleright	\triangleright	\triangleright	\triangleright	\triangleright			
	AUS	B06	\triangleright	\triangleright	\triangleright	\triangleright	\triangleright			
	DK	B07	\triangleright	\triangleright	\triangleright	\triangleright	\triangleright			
		B08	\triangleright	\triangleright	\triangleright	\triangleright	\triangleright			
	CH with detection of connection and protection category	B09	\triangleright	\triangleright	\triangleright	\triangleright	\triangleright			
	Universal adapter for test socket, Germany (B00)	5	_	_	_	_	_			
	(for DUIs with different country-specific plugs)	B11	<u> </u>		L LI					
User interface language	e (default language which can be subsequently changed to any of	the other language	s listed below	()	_					
	German	C00								
	English	C01								
	French	002								
	Italian	C03								
	Spanish	C04								
	Czech	C05								
	Dutch	C06								
	Polish	C07								
	Portuguese	C12	\triangleright	\triangleright	\triangleright		\triangleright			
Data entry via touchso	reen	500	_	_						
	None	EUU	-	-		_				
		EUT				-	-			
R-PE test current for p	rotective conductor measurement	000	_							
	200 mA	GUU	-							
	200 mA and TU A ' (not in combination with GU2)	GUT				-				
O	200 mA and 25 A	GU2					-			
Connection for 2 nd tes	L probe	1100	_	_						
		HUU	-	-						
DV/M function (digital)	Included	HUT			-	-				
DVM function (digital V	None	100	-	-						
		100	-	-	-		_			
looks for applied parts		101			-	-	-			
Jacks for applied parts	None	100	-	-		-	-			
Additional tost coguono		300	-	-	-	-	-			
Auditional test sequenc	None	KV00	-							
SECUTEST DB+ databa	ase expansion (corresponds to 7853B)	INNUU	-	—	-	-	-			
decoreor bbr dutabl	None	KROO	-							
	Included	KB01								
SECUTEST DB COMFOR	T database expansion (corresponds to 7853S)	1.001	-	<u>ц</u>	-	-				
	None	KD00								
	Included	KD01								
Bluetooth®							-			
	None	M00								
	Included	M01								
DAkkS calibration cert	ificate (language combinations)	·	_			_				
	In D/GB/F	P00								
	In D/GB/PL	P01	\triangleright	\triangleright	\triangleright	\triangleright	\triangleright			
	In D/GB/IT	P02	\triangleright	\triangleright	\triangleright	\triangleright	\triangleright			
Kev: Default 🗖 0	ptional > Alternative Fixed standard feature	1								

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

Sample Order

Sample order for a SECUTEST ST BASE10 with English user interface:

M7050 AA02 C01 G01

AA02: SECUTEST BASE10 device variant

C01: English user interface, keyboard layout and test sequences G01: R-PE test current for protective conductor measurement: 200 mA and 10 A

Accessories

Designation	Туре	Article No.
Mains 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 permanently connected		
nick-up clips and 2 plug-on test probes	KS13	GTY3624065P01
pick-up clips and 2 plug-on test probes.	1010	0113024003101
Adapter for Testing 3-Phase Current Cons	sumers	
Adapter for connecting DUIS:		
5 ea. 4 mm socket		
- For all tests without mains voltage		
For single and 3-phase electrical devices		
 For leakage current measurement, direct or differential current method 	CEE adaptor	77454
16 A/32 A 3-phase current adapter	CEE auapter	Z740A
(test case)		
 For all tests without mains voltage 		
For single and 3-phase electrical devices		
 For tests at single and 3-phase extension 		
– For leakage current measurement		
direct method		
 For leakage current measurement, 	5	
differential current method ¹	AT3-III-E ^D	Z745S
Test adapter for testing devices with CEE16		
and CEE32 connectors (max. load capacity: 20 A)	AT3-115 D, 1	7745T
Test adapter for testing devices with CEE16	AIJ-110	27431
and CEE32 connectors		
(max. load capacity: 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
lest adapter with single and 3-phase plug		
— For all tests without mains voltage		
For single and 3-phase electrical devices		
- For tests at single and 3-phase extension		
cords	VL2E	Z745W
Adapter cable, red CEE 5-pole 16 A plug to		
$5 \times 1.5 \text{ mm}^2$	adapter cable	7750F
		27001
Adapter for Testing Single-Phase Extension	on Cords	
(current clamp) for SECUTEST ST PRO		
0.1 mA 25 mA AC		
Frequency range: 50 Hz 1 MHz,		
transformation ratio: 100 mV / mA,		77454
Adapter for testing single-phase extension	JECUTEST CLIP	2140F1
cords including earth contact and inlet plug		
inserts	EL1	Z723A
Plug insert for using the EL1 adapter in		
Switzerland	PRO-CH	GTZ3225000R0001
Adapter for Testing Welding Units		
Test adapter in combination with SECUTEST		
ST for testing welding units in accordance		
with IEC 60974-4 / EN 60974-4 /		
The neak-value rectifier in the SECULOAD M		
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 for voltage sources		
with conventional transformer		
Includes 4 measurement cables and 2 alliga-		
tor clips.	SECULOAD-N	Z745R

Calibration Adapter Calibration adapter for test instruments per DINE NG 155.7-16 / VDE 0413-16 (previ- ously UDIN VDE 0404) (max. 200 mA) not for use with 10 A protective conductor test current SECU-cal 10 Z715A Probe Cables Probe Cable with test probe and 2 m probe cable (not coiled), 300 V CAT II 16 A PC2 Z745D Probe cable with test probe and 2 m probe cable (coiled), 300 V CAT II 16 A PC2 Z745D S m probe cable for protective conductor measurement .300 V CAT II 16 A PC5 Z745G S m probe cable for protective conductor measurement .300 V CAT II 16 A PC5 Z745G Sum ber probes for measuring multiple, accessible housing parts or applied parts SV5 Z745J Cable set (1 pair of measurement cables) 1.2 m, with VDE-GS mark, 600 V CAT III 1 A * 1000 V CAT III 1 9 A, blue Measuring cable set, blue Z746A 2 pieces in a plastic bag, diameter. 4 m, length 1.0 m, 1000 V CAT III, 19 A, black/red Wasuring cable set, blue Z746B Current Clamp Sensors for SECUTEST ST FVO/SECULIFE ST BASE(25) SWichable current clamp sensor, 1 mA 15 A and 1 A 150 A, frequency range: 45 65 500 Hz, 1 mastration ratio: 1 mV/mA and 1 mV/A, clama opening: 15 mm max. cable dia. Z3409 GT23409000R0001 P11000 temperature sensor, class B, for measurement in gases and liquids, 50 +220 °C	Designation	Туре	Article No.
Calibration adapter for test instruments per DIN EN 61557-16 / VEC 0413-16 (previ- ously DIN VDE 0404) (max. 200 mA) not for use with 10 A protective conductor test current SECU-cal 10 Z715A Frobe Cable with test probe and 2 m probe cable (not colled), 300 V CAT II 16 A SECU-cal 2 Probe cable for protective conductor measurement, 300 V CAT II 16 A Sraw Z7450 Sush probe 2 min test probes for measurement cables) 1.2 m, with VDE-GS mark, 600 V CAT IV 1 A ⁺ , 1000 V CAT III 1 A ⁺ 1000 V CAT II 16 A SV5 Z745G Z745G Z745G Z745G Z745G Z745G Z745G Z745J Cable set (1 pair of measurement cables) 1.2 m, with VDE-GS mark, 600 V CAT IV 1 A ⁺ , 1000 V CAT III 1 A ⁺ 1000 V CAT III 16 A ⁻ With plugged on safety caps "Without plugged on safety caps "Mithout plugged on s	Calibration Adapter		
DIN EN 6155/-16 / VDE 0413-16 (previ- ously DIN VDE 0404) (max. 200 mA) not for use with 10 A protective conductor test current SECU-cal 10 Z715A Probe Cables Frobe cable with test probe and 2 m probe cable (not colled), 300 V CAT II 16 A PC2 Z745D Probe cable with test probe and 2 m probe cable (not colled), 300 V CAT II 16 A PC2 Z745N S m probe cable for protective conductor measurement, 300 V CAT II 16 A PC5 Z745G Brush probe Z745G Z745G Distributor for connecting five 4 mm and five 2 m test probes for measuring multiple, accessible housing parts or applied parts SV5 Z745J Cable set (1 pair of measuring multiple, accessible housing parts or applied parts SV5 Z745A 1.2 m, with VDE-GS mark, 600 V CAT II 16 A " KS17-2 GTY3620034P0002 2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III, 19 A, blue Measuring cable set, blue Z746A 2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III, 19 A, bluek/red WE102 P Z214GA 2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III, 19 A, bluek/red WE12C D Z746B Current Clamp sensor, 1 SO A, frequency range: 4565	Calibration adapter for test instruments per		
biasy Dirk VDE OHDY (max. 200 may find tot) see with 10 A protective conductor test current SECU-cal 10 Probe Cables Probe cable with test probe and 2 m probe cable (not coiled), 300 V CAT II 16 A Probe cable with test probe and 2 m probe cable (coiled), 300 V CAT II 16 A S m probe cable for protective conductor measurement, 300 V CAT II 16 A Probe cable for protective conductor measurement, 300 V CAT II 16 A Probe cable for protective conductor measurement, 300 V CAT II 16 A Probe cable for protective conductor measurement, 300 V CAT II 16 A Probe cable for protective conductor measurement, 300 V CAT II 16 A Probe cable for protective conductor measurement, 300 V CAT III 1 A * 100 V CAT II 16 A * Vith pulgged on safety caps * Without pulgged on safety caps Switchable current clamp sensor, 1 mA 15 A and 1 A 150 A, frequency range: <u>5 65 500 Hz</u> , transformation ratio: 1 mV/mA and 1 mV/A, clamp opening: 15 mm max, cable dia. Vitto pulgged on safety caps V100 temperature sensor, class B, for measurement in gases and liquids, -50 +220 °C P1000 temperature sensor, class B, for measurement in gases and liquids, -50 +220 °C	DIN EN 61557-16 / VDE 0413-16 (previ-		
But with to P protective conductor test SECU-cal 10 Z715A Probe Cables Probe Cable (not colled), 300 V CAT II 16 A PC2 Z745D Probe cable with test probe and 2 m probe cable (colled), 300 V CAT II 16 A PC2 Z745D S m probe cable for protective conductor measurement, 300 V CAT II 16 A PC5 Z745G Brush probe Z745G Z745G Distributor for connecting five 4 mm and five 2 mm test probes for measuring multiple, accessible housing parts or applied parts SV5 Z745J Cable set (1 pair of measurement cables) 1.2 m, with VDE-GS mark, G00 V CAT II 16 A SV5 Z745J Cable set (1 pair of measurement cables) 1.2 m, with vDE-GS mark, G00 V CAT II 16 A SV5 Z746A 2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III 19 A, black/red Measuring cable set, blue Z746A 2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III 19 A, black/red Measuring cable set, blue Z746B Current Clamp Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25) Switchable current clamp meter, 0.1 mA 25 mA, 100 mV/mA SECUTEST CLIP ^D Z745H Temperature Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25) TF220 Z102A P1000 temperature sensor, r40 +500 °C TF220 Z102A P1000 temperature sensor, r40 +500 °C TF220 Z102A P1000 temperature sensor, r40	use with 10 A protective conductor test		
Probe Cables Probe cable with test probe and 2 m probe cable (not coiled), 300 V CAT II 16 A PC2 Z745D Probe cable with test probe and 2 m probe cable (one coiled), 300 V CAT II 16 A PC2 Z745D Structure Cable (coiled), 300 V CAT II 16 A PC2 Z745D Probe cable for protective conductor measurement, 300 V CAT II 16 A PC5 Z745G Brush probe Z745G Z745G Z745G Distributor for connecting five 4 mm and five 2 mm test probes for measuring multiple, accessible housing parts or applied parts Cable set (1 pair of measurement cables) 1.2 m, with VDE-GS mark, 600 V CAT II 1 6 Å " VX5 Z745J 1000 V CAT II 16 A Nessuring cable set, blue Z746A Z746A 2 pieces in a plastic bag, diameter: 4 mm, length: 10 m, 1000 V CAT III 1 A hour program sensor, 11 A hour program sensor, 11 A hour program sensor, 11 A hour program sensor, 12 A hold A hour program sensor, 12 A hour program sensor, 14 A hour program sensor, 14 A hour hour program sensor, 14 A hour program sensor, 14 A hour program sensor, 14 A hour hour hour program sensor, 14 A hour hour hour hour program s	current	SECU-cal 10	7715A
Probe Cables View Cable with test probe and 2 m probe cable (not colled), 300 V CAT II 16 A PC2 Z745D Probe cable (colled), 300 V CAT II 16 A PC2 Z745N S m probe cable for protective conductor measurement, 300 V CAT II 16 A PC5 Z7450 Brush probe Z745G Z745G Distributor for connecting five 4 mm and five 2 mm test probes for measurement cables) Z745G Z745J 2 mote stap robes for measurement cables) SV5 Z745J 1.2 m, with VDE-GS mark, 600 V CAT II 1 A ^* 1000 V CAT II 1 A ^* 1000 V CAT III 1 A A Measuring cable 2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III, 19 A, blue St, blue Z746A 2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III, 19 A, blue Set, blue Z746A 2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III, 19 A, blue XV12C D Z2146B Current Clamp Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25) Switchable current clamp sensor, 1 m A 15 A and 1 A 150 A, frequency range: 45 65 500 Hz, transformation ratio: 1 mV/M and 1 mV/A, clamp opening: 15 mm max. cable dia. SECUTEST CLIFE ST BASE(25) P11000 temperature sensor, r40 +500 °C TF520 GT23409000R0001 </td <td></td> <td>0200 041 10</td> <td>2.1.1011</td>		0200 041 10	2.1.1011
Probe cable with test probe and 2 m probe cable (not colled), 300 V CAT II 16 A PC2 Z745D Probe cable with test probe and 2 m probe cable (colled), 300 V CAT II 16 A SK2W Z745N 5 m probe cable for protective conductor measurement, 300 V CAT II 16 A PC5 Z745G Brush probe Z745G Z745G Brush probe Z745G Z745G Stributor for connecting five 4 mm and five 2 mm test probes for measurement cables) 1.2 m, with VDE-GS mark, GOU VCAT II 16 A SV5 Z745J Cable set (1 pair of measurement cables) 1.2 m, with VDE-GS mark, GOU VCAT II 16 A SV5 Z746A 2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 VCAT III, 19 A, blue KS17-2 GTY3620034P0002 2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 VCAT III, 19 A, blue Xet blue set, blue Z746B Current Clamp Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25) Switchable current clamp sensor, 1 mA 15 A and 1 A 150 A, frequency range: 45 65 500 Hz, transformation ratio: 1 mV/mA and 1 mV/A, clamp opening: 15 mm max. cable dia. Z219C Z219C Leakage current clamp meter, 0.1 mA 25 mA, 100 mV/mA SECUTEST ST PRO/SECULIFE ST BASE(25) P1100 temperature sensor, r40 +500 °C for surface and immersion measurements Z3409 GTZ3409000R0001 P11000 temperature sensor, r50 +550 °C	Probe Cables		
cabe (not colled), 300 V CAI II 16 A PC2 Z745D Probe cable with test probe and 2 m probe cable (colled), 300 V CAT II 16 A SK2W Z745N 5 m probe cable for protective conductor measurement, 300 V CAT II 16 A PC5 Z745G Distributor for connecting five 4 mm and five 2 mm test probes for measuring multiple, accessible housing parts or applied parts Z745G Z745G Cable set (1 pair of measurement cables) 1.2 m, with VDE-GS mark, 600 V CAT II 16 A SV5 Z745J Tool OV CAT II 16 A KS17-2 GTY3620034P0002 2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III 1 A * Measuring cable set, blue Z746A 2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III, 19 A, black/red Measuring cable set, black/red Z746B Current Clamp Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25) Switchable current clamp sensor, 1 mA 15 A and 1 A 150 A, frequency range: <u>565</u> 500 Hz, transformation ratio: 1 mV/mA and 1 mV/A, clamp opening: 15 mm max. cable dia. WZ12C ^D Z219C Leakage current clamp meter, 0.1 mA 25 mA, 100 mV/mA SECUTEST ST PRO/SECULIFE ST BASE(25) P1100 temperature sensor, -40 +500 °C, for surface and immersion measurements P1000 temperature sensor, class B, for measurement in gases and liquids, -50 +220 °C TF220 Z102A P1100 temperature sensor, class B, for measurement in gases	Probe cable with test probe and 2 m probe	500	77 450
Probe cable with test probe and 2 in probe cable (coiled), 30 V CAT II 16 ASK2WZ745N5 m probe cable for protective conductor measurement, 300 V CAT II 16 APCSZ745GBrush probeDistributor for connecting five 4 mm and five 2 mm test probes for measuring multiple, accessible housing parts or applied partsSV5Z745GCable set (1 pair of measurement cables) 1.2 m, with VDE-GS mark, 600 V CAT III 16 A " . With plugged on safety capsSV5Z745J2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III, 19 A, blueKS17-2GTY3620034P00022 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III, 19 A, blueset, blueZ746A2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III, 19 A, blueset, blueZ746B2 morent Clamp Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25)Switchable current clamp sensor, 10 m 150 A, frequency range: 45 65 500 Hz, transformation ratic: 1 mV/mA and 1 mV/A, clamo opening: 15 mm max. cable dia. UVZ12C DZ219CLeakage current clamp meter, 0.1 mA 25 mA, 100 mV/mASECUTEST ST PRO/SECULIFE ST BASE(25)PT100 temperature sensor, 40 +500 °C for surface and immersion measurement b gases and liquids, -50 +220 °CTF220Z102APT100 otemperature sensor, 21000TF2000 DZ74000Linge carrying pouch for test instrument targe carrying pouch for test instrument sensor 3 mm dia. × 810 mm longTF400CARZ102CPouches and CasesF2030Z700DCarrying pouch for test instrument test sco00 DZ7000 <td>Cable (not colled), 300 V CAI II 16 A</td> <td>PC2</td> <td>27450</td>	Cable (not colled), 300 V CAI II 16 A	PC2	27450
Cause (collied), 000 V CM III 16 ADS2 WD 4 N5 m probe cause los for protective conductor measurement, 300 V CAT III 16 APC5Z7450Brush probeZ745GZ745GDistributor for connecting five 4 mm and five accessible housing parts or applied partsSV5Z745JCable set (1 pair of measurement cables) 1.2 m, with VDE-GS mark, 600 V CAT III 16 ASV5Z745JCable set (1 pair of measurement cables) 1.2 m, with VDE-GS mark, 600 V CAT III 16 ASV5Z745J2 picese in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III, 19 A, blue 2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III, 19 A, blue set, blueZ746A2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III, 19 A, blue set, black/redZ746BCurrent Clamp Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25)Switchable current clamp sensor, 1 mA 15 A and 1 A 150 A, frequency range: 4565500 Hz, transformation ratio: 1 mV/mA and 1 mV/A, clamp opening: 15 mm max. cable dia. Leakage current clamp meter, 0.1 mA 25 mA, 100 mV/mASECUTEST ST PRO/SECULIFE ST BASE(25)Pt100 temperature sensor, 60 SECUTEST ST PRO/SECULIFE ST BASE(25)T1000Pt100 temperature sensor, elass B, for measurement in gases and liquids, e-50 +250 °CTF220Pt100 temperature sensor, Pt1000 class B, 50 +550 °CTF550Pt100 temperature sensor, Pt1000 class B, 50 +550 °CTF550Carrying pouch for thet set instrument strumentF2000 DCarrying pouch for thet set instrument strumentF2000 DPastek sol C	cable (coiled) 300 V CAT II 16 A	SKOW	7745N
The proof data is provided at the proof of the proof data is provided at the proof data is proof data is proof data is provided at the proof data is provided at the proof data is provided at the proof data is	5 m probe cable for protective conductor	UK2W	21401
Brush probe Z745G Z745G Distributor for connecting five 4 mm and five 2 mm test probes for measuring multiple, accessible housing parts or applied parts SV5 Z745J Cable set (1 pair of measurement cables) 1.2 m, with VDE-6S mark, 600 V CAT II 1.6 A" SV5 Z745J Cable set (1 pair of measurement cables) 1.2 m, with VDE-6S mark, 600 V CAT II 1.6 A" SV5 Z745J Current plugged on safety caps KS17-2 GTY3620034P0002 2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III, 19 A, blue KS17-2 GT46A 2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III, 19 A, black/red KS17-2 Z746B Current Clamp Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25) Switchable current clamp sensor, 1 mA 150 A, frequency range: 45 65 500 Hz, transformation ratio: 1 mV/mA and 1 mV/A, clamp opening: 15 mm max. cable dia. WZ12C D Z219C Leakage current clamp meter, 0.1 mA 25 mA, 100 mV/mA SECUTEST CLIP D Z745H Temperature Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25) T1000 temperature sensor, r40 +500 °C T550 GT23409000R0001 P1100 temperature sensor, case B, for measurement in gases and liquids, -50 +220 °C TF220 Z102A P100 temperature sensor, r50 +550 °C TF550 GT23408000R0001 <	measurement, 300 V CAT II 16 A	PC5	Z7450
Distributor for connecting five 4 mm and five SV5 Z745J 2 mm test probes for measuring multiple, accessible housing parts or applied parts SV5 Z745J Cable set (1 pair of measurement cables) 1.2 m, with VDE-GS mark, SV5 Z745J 600 V CAT III 1 6 A "* ** GTY3620034P0002 Errore and the accessible housing parts or applied parts 2 mices in a plastic bag, diameter: 4 mm, length: Measuring cable set, blue Z746A Z746A 2 pieces in a plastic bag, diameter: 4 mm, length: Measuring cable set, blue Z746B Z746B Current Clamp Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25) Switchable current clamp sensor, 1 mA 150 A, frequency range: 45 65 500 Hz, transformation ratio: 1 mV/mA and 1 mV/A, clamp opening: 15 mm max. cable dia. WZ12C D Z219C Leakage current clamp meter, 0.1 mA 25 mA, 100 mV/mA SECUTEST ST PRO/SECULIFE ST BASE(25) PT1000 temperature sensor, -40 +500 °C Z3409 GTZ3409000R0001 PT1000 temperature sensor, -40 +500 °C TF220 Z102A Z102A PT1000 temperature sensor, -450 °C TF550 GTZ3408000R0001 Piositick oil temperature sensor, Pt1000 class B, -50 +220 °C TF220 Z102A Z102A Ptouches and Cases	Brush probe	Z745G	Z745G
2 mm test probes for measuring multiple, accessible housing parts or applied parts SV5 Z745J Cable set (1 pair of measurement cables) m, with VDE-GS mark, 600 V CAT III 1 A ^* SV5 Z745J 600 V CAT III 16 A ^* m, with VDE-GS mark, 1000 V CAT III 1 A ^* GTY3620034P0002 GTY3620034P0002 2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III, 19 A, blue Measuring cable set, blue Z746A 2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III, 19 A, blue Set, blue Z746B Current Clamp Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25) Switchable current clamp sensor, 1 mA 15 A and 1 A 150 A, frequency range: 45 65 500 Hz, transformation ratio: 1 mV/mA and 1 mV/A, clamp opening: 15 mm max. cable dia. WZ12C D Z219C Leakage current clamp meter, 0.1 mA 25 mA, 100 mV/mA SECUTEST ST PRO/SECULIFE ST BASE(25) PT100 temperature sensor, -40 +500 °C Treporature Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25) PT100 temperature sensor, -40 +500 °C PT100 temperature sensor, -40 +500 °C Trepore Current clamp meter, 0.1 mA 25 mA, 100 mV/mA SECUTEST ST PRO/SECULIFE ST BASE(25) PT100 temperature sensor, -40 +500 °C	Distributor for connecting five 4 mm and five		
accessible housing parts or applied parts SV5 Z745J Cable set (1 pair of measurement cables) 1.2 m, with VDE-GS mark, G0V CAT III 1 A * 1.2 m, with VDE-GS mark, GOV CAT III 1 A * GTY3620034P0002 2 pieces in a plastic bag, diameter: 4 mm, length: Measuring cable set, blue Z746A 2 pieces in a plastic bag, diameter: 4 mm, length: Measuring cable set, blue Z746A 2 pieces in a plastic bag, diameter: 4 mm, length: Measuring cable set, blue Z746B Current Clamp Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25) Switchable current clamp sensor, 150 MZ, transformation ratio: 1 mV/mA and 1 mV/A, clamp opening: 15 mm max. cable dia. WZ12C D Z219C Leakage current clamp meter, 0.1 mA 25 mA, 100 mV/mA SECUTEST ST PRO/SECULIFE ST BASE(25) PH100 temperature sensor, r40 +500 °C GTZ3409000R0001 P1100 temperature sensor, r40 +500 °C TF220 Z102A P1100 temperature sensor, r50 +550 °C TF550 GTZ3408000R0001 P1100 temperature sensor, r50 +550 °C TF520 Z7402 P100 otemperature sensor, r50 +550 °C TF500 GTZ3408000R0001 Dip-stick oil temperature sensor, P11000 F2000 D Z700A P1100 otemperature sensor, P11000 F	2 mm test probes for measuring multiple,		
Cable set (1 pair of measurement cables) 1.2 m, with VDE-GS mark, 1.2 m, with VDE-GS mark, GV YGAT III 1 A * 1000 V CAT III 1 A * 1000 V CAT III 1 A * 1000 V CAT III 1 A * With plugged on safety caps KS17-2 2 pieces in a plastic bag, diameter: 4 mm, length: Measuring cable set, blue Z746A 2 pieces in a plastic bag, diameter: 4 mm, length: Measuring cable set, black/red Z746B Current Clamp Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25) Switchable current clamp sensor, 1 mA 150 A, frequency range: 45 65 500 Hz, transformation ratio: 1 mV/mA and 1 mV/A, clamp opening: 15 mm max. cable dia. WZ12C ^D Z219C Leakage current clamp meter, 0.1 mA 25 mA, 100 mV/mA SECUTEST ST PRO/SECULIFE ST BASE(25) Pt100 temperature sensor, r40 +500 °C Tor surface and immersion measurements Z3409 Of rustrace and immersion measurements TF220 Z102A Pt100 otemperature sensor, r50 +550 °C TF550 GTZ3408000R0001 Dip-stick oil temperature sensor, Pt10000 F2000 ^D Z700D class B, 50 +500 °C, sensor: 3 mm dia. × 810 mm long TF400CAR Z102C Puches and Cases F2020 Z700F Interstinstrument sets F2020 Z700F Univ	accessible housing parts or applied parts	SV5	Z745J
1.2 m, with YDE-GS Inlark, GOV CAT II 1 A * 600 V CAT II 16 A * Fill 16 A * ** With plugged on safety caps KS17-2 GY Vichout plugged on safety caps KS17-2 String of the string of th	Cable set (1 pair of measurement cables)		
0000 V CAT II 16 A Vith plugged on safety caps KS17-2 GTY3620034P0002 2 pieces in a plastic bag, diameter: 4 mm, length: Measuring cable Z746A 2 pieces in a plastic bag, diameter: 4 mm, length: Measuring cable Z746A 2 pieces in a plastic bag, diameter: 4 mm, length: Measuring cable Z746A 2 pieces in a plastic bag, diameter: 4 mm, length: Measuring cable Set, black/red Z746B Current Clamp Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25) Switchable current clamp sensor, 1 m //mA and 1 mV/A, ramp opening: 15 mm max. cable dia. WZ12C D Z219C Leakage current clamp meter, 0.1 mA SECUTEST CLIP D Z745H Temperature Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25) P1100 temperature sensor, -40 +500 °C Z3409 GTZ3409000R0001 P1000 temperature sensor, class B, for measurement in gases and liquids, -50 +220 °C TF220 Z102A P1100 oven sensor, -50 +550 °C TF550 GTZ3408000R0001 Dip-stick oil temperature sensor, P11000 Class B, 50 +500 °C, sensor: 3 mm dia. × 810 mm long TF400CAR Z102C Pouches and Cases Carrying pouch for the test instrument sets F2020 Z	1.2 m, with VDE-GS mark, 600 V CAT IV 1 A * 1000 V CAT III 1 A *		
With plugged on safety caps KS17-2 GTY3620034P0002 2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III, 19 A, blue set, blue Z746A 2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III, 19 A, black/red Measuring cable set, blue Z746B Current Clamp Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25) Switchable current clamp sensor, 1 Measuring cable set, black/red Z746B Current Clamp Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25) Switchable current clamp sensor, 1 MV/A, clamp opening: 15 mm max. cable dia. WZ12C D Z219C Leakage current clamp meter, 0.1 mA SECUTEST CLIP D Z745H Temperature Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25) P1100 temperature sensor, -40 +500 °C GTZ3409000R0001 P11000 temperature sensor, -40 +500 °C TF220 Z102A P11000 temperature sensor, -50 +550 °C TF550 GTZ3408000R0001 Dip-stick oil temperature sensor, P11000 class B, 50 +500 °C, sensor: 3 mm dia. × 810 mm long TF400CAR Z102C Pouches and Cases Carrying pouch for the test instrument sets F2020 Z700D Z700D Large carrying pouch for the test instru	1000 V CAT II 16 A **		
Without plugged on safety capsKS17-2GTY3620034P00022 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III, 19 A, blueMeasuring cable set, blueZ746A2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III, 19 A, black/redMeasuring cable set, black/redZ746BCurrent Clamp Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25)Switchable current clamp sensor, 1 mA 15 A and 1 A 150 A, frequency range: 45 65 500 Hz, transformation ratio: 1 mV/mA and 1 mV/A, clamp opening: 15 mm max. cable dia.WZ12C DZ219CLeakage current clamp meter, 0.1 mA 25 mA, 100 mV/mASECUTEST CLIP DZ745HTemperature Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25)Pt100 temperature sensor, -40 +500 °C for surface and immersion measurementsCartification measurementsC102APt100 temperature sensor, class B, for measurement in gases and liquids, -50 +220 °CTF220Z102APt100 ven sensor, -50 +550 °CTF550GTZ3408000R0001Dip-stick oil temperature sensor, Pt1000 class B, -50 +500 °C, sensor: 3 mm dia. × 810 mm longTF400CARZ102CPouches and CasesCarrying pouch for the test instrument strumentF2010Z700DLarge carrying pouch for the test in- strumentStrumentF2010Z700GSy	With plugged on safety caps		
2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III, 19 A, blueMeasuring cable set, blueZ746A2 pieces in a plastic bag, diameter: 4 mm, length: 1.0 m, 1000 V CAT III, 19 A, black/redMeasuring cable set, black/redZ746BCurrent Clamp Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25)Switchable current clamp sensor, 1 mA 15 A and 1 A 150 A, frequency range: 45 65 500 Hz, transformation ratio: 1 mV/mA and 1 mV/A, clamp opening: 15 mm max. cable dia.WZ12C DZ219CLeakage current clamp meter, 0.1 mA 25 mA, 100 mV/mASECUTEST CLIP DZ745HTemperature Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25)Pt100 temperature sensor, -40 +500 °C for surface and immersion measurementsCarying pouch for the test instrument sensor: 3 mm dia. × 810 mm longTF400CARZ102CPouches and CasesCarrying pouch for the test instrument strumentF2010Z700DLarge carrying pouch for the test instrument strumentF2010Z700DLarge carrying pouch for the test instrument strumentF2030Z700DLarge carrying pouch for the test in- strumentF2010Z700DLarge carrying pouch for the test in- strumentF2030Z700DLarge carrying pouch with flexibl	Without plugged on safety caps	KS17-2	GTY3620034P0002
Itelright 1.0 Int, 1000 V CAT III, 19 A, blue Set, blue Z1/40A 2 pieces in a plastic bag, diameter: 4 mm, length: Measuring cable Z746B Current Clamp Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25) Switchable current clamp sensor, mA 15 A and 1 A 150 A, Keasuring cable frequency range: 45 65 500 Hz, Keasuring cable Z219C Leakage current clamp meter, 0.1 mA SECUTEST CLIP D Z745H Temperature Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25) Pt100 temperature sensor, -40 +500 °C GTZ3409000R0001 Pt100 temperature sensor, -40 +500 °C GTZ3409000R0001 Pt100 temperature sensor, class B, for GTZ3408000R0001 Pt100 oven sensor, -50 +550 °C TF550 GTZ3408000R0001 Dip-stick oil temperature sensor, Pt1000 Class B, -50 +500 °C, Sensor: 3 mm dia. × 810 mm long F4000 D Carrying pouch for the test instrument sets F2020 Z700D Large carrying pouch for test instrument sets F2030 Z700F Universal carrying pouch with flexible com- partments and display guard for the test in- strument F2010 Z700G System soft-case F2030 Z700H </td <td>2 pieces in a plastic bag, diameter: 4 mm,</td> <td>Measuring cable</td> <td>77464</td>	2 pieces in a plastic bag, diameter: 4 mm,	Measuring cable	77464
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Current Clamp Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25)Switchable current clamp sensor, 1 mA 15 A and 1 A 150 A, frequency range: 45 65 500 Hz, transformation ratio: 1 mV/mA and 1 mV/A, clamp opening: 15 mm max. cable dia.WZ12C DZ219CLeakage current clamp meter, 0.1 mA 25 mA, 100 mV/mASECUTEST CLIP DZ745HTemperature Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25)Pt100 temperature sensor, -40 +500 °C for surface and immersion measurementsZ3409GTZ3409000R0001Pt100 temperature sensor, -40 +500 °C for surface and immersion measurementsZ3409GTZ3409000R0001Pt100 temperature sensor, class B, for measurement in gases and liquids, -50 +220 °CTF220Z102APt100 oven sensor, -50 +550 °C sensor: 3 mm dia. × 810 mm longTF400CARZ102CPouches and CasesCarrying pouch for the test instrument sets universal carrying pouch with flexible com- partments and display guard for the test in- strumentF2000 DZ700DLarge carrying pouch with flexible com- partments and display guard for the test in- strumentF2010Z700FPlastic system caseSORTIMO L-BOXX dift com- partments for test instrument and accessoriesSORTIMO L-BOXX Secutest4Z701DPoam insert for SORTIMO L-BOXX GM withFoam SORTIMO L-BOXX GM withFoam SORTIMOZ701D		501, 514017104	21400
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In Bod Tay, transformation ratio: 1 mV/mA and 1 mV/A, clamp opening: 15 mm max. cable dia.WZ12C DZ219CLeakage current clamp meter, 0.1 mA 25 mA, 100 mV/mASECUTEST CLIP DZ745HTemperature Sensors for SECUTEST ST PRO/SECULIFE ST BASE(25)Pt100 temperature sensor, -40 +500 °C for surface and immersion measurementsZ3409GTZ3409000R0001Pt100 temperature sensor, -40 +500 °C for surface and immersion measurementsZ3409GTZ3409000R0001Pt100 temperature sensor, class B, for measurement in gases and liquids, -50 +220 °CTF220Z102APt100 oven sensor, -50 +550 °CTF550GTZ3408000R0001Dip-stick oil temperature sensor, Pt1000 class B, -50 +500 °C, sensor: 3 mm dia. × 810 mm longTF400CARZ102CPouches and CasesCarrying pouch for the test instrument setsF2000 DZ700DLarge carrying pouch with flexible compartments and display guard for the test in- strumentF2010Z700GSystem soft-caseF2030Z700HPlastic system caseSORTIMO L-BOXX with compartments for test instrument and accessoriesLarge SORTIMO L-BOXX GM withFoam insert for SORTIMO L-BOXX GM withFoam inser	1 IIIA 15 A and 1 A 150 A, frequency range: 45 65 500 Hz		
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Dip-stuck on temperature sensor, PT1000 ref400CAR Z102C class B, -50 +500 °C, sensor: 3 mm dia. × 810 mm long TF400CAR Z102C Pouches and Cases Carrying pouch for the test instrument F2000 ^D Z700D Large carrying pouch for test instrument sets F2020 Z700F Universal carrying pouch with flexible compartments and display guard for the test instrument F2010 Z700G System soft-case F2030 Z700H Plastic system case SORTIMO L-BOXX Z503D Foam insert for SORTIMO L-BOXX with compartments for test instrument and accessories L-BOXX Secutest4 Z701D Foam insert for SORTIMO L-BOXX GM with Foam SORTIMO L-BOXX Secutest4 Z701D	Pt100 oven sensor, -50 +550 °C	1F550	GIZ3408000R0001
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Pouches and Cases E27000 Carrying pouch for the test instrument F2000 Z700D Large carrying pouch for test instrument sets F2020 Z700F Universal carrying pouch with flexible compartments and display guard for the test instrument F2010 Z700G System soft-case F2030 Z700H Plastic system case SORTIMO L-BOXX Z503D Foam insert for SORTIMO L-BOXX with compartments for test instrument and accessories L-BOXX Secutest4 Z701D Foam insert for SORTIMO L-BOXX GM with Foam SORTIMO L-BOXX SORTIMO	sensor: 3 mm dia $\times 810 \text{ mm}$ long	TF400CAB	71020
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Carrying pouch for the test instrumentF2000 bZ700DLarge carrying pouch for test instrument setsF2020Z700FUniversal carrying pouch with flexible compartments and display guard for the test instrumentF2010Z700GSystem soft-caseF2030Z700HPlastic system caseSORTIMO L-BOXXZ503DFoam insert for SORTIMO L-BOXX with compartments for test instrument and accessoriesL-BOXX Secutest4Z701DFoam insert for SORTIMO L-BOXX GM withFoam SORTIMOL-BOXX Secutest4Z701D	Pouches and Cases		
Large carrying pouch for test instrument setsF2020Z700FUniversal carrying pouch with flexible compartments and display guard for the test instrumentF2010Z700GSystem soft-caseF2030Z700HPlastic system caseSORTIMO L-BOXXZ503DFoam insert for SORTIMO L-BOXX with compartments for test instrument and accessoriesFoam SORTIMOFoam insert for SORTIMO L-BOXX GM withFoam SORTIMO	Carrying pouch for the test instrument	F2000 V	Z700D
Universal carrying pouch with flexible compartments and display guard for the test in- strument F2010 Z700G System soft-case F2030 Z700H Plastic system case SORTIMO L-BOXX Z503D Foam insert for SORTIMO L-BOXX with compartments for test instrument and accessories Foam SORTIMO Z701D Foam insert for SORTIMO L-BOXX GM with Foam SORTIMO Foam SORTIMO	Large carrying pouch for test instrument sets	F2020	27001
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Plastic system case SORTIMO L-BOXX Z503D Foam insert for SORTIMO L-BOXX with compartments for test instrument and accessories Foam SORTIMO Z701D Foam insert for SORTIMO L-BOXX GM with Foam SORTIMO Foam SORTIMO	System soft-case	F2030	Z700H
Foam insert for SORTIMO L-BOXX with com- partments for test instrument and accessories Foam SORTIMO Foam insert for SORTIMO L-BOXX GM with Foam SORTIMO	Plastic system case	SORTIMO L-BOXX	Z503D
partments for test instrument and accessories L-BOXX Secutest4 Z701D Foam insert for SORTIMO L-BOXX GM with Foam SORTIMO	Foam insert for SORTIMO L-BOXX with com-	Foam SORTIMO	
Foam insert for SORTIMO L-BOXX GM with Foam SORTIMO	partments for test instrument and accessories	L-BOXX Secutest4	Z701D
	Foam insert for SORTIMO L-BOXX GM with	Foam SORTIMO	
compartment for adapter L-BOXX adapter Z701E			

Designation	Tune	Auticle No				
Designation	туре	Article No.				
Data Storage Accessories						
Database expansion: Remote control, 24						
user-defined test sequences, additional da-						
tabase elements, individual test interval,						
multi-print, user-defined report templates,		70500 *				
data import/export	SECUTEST DB+	Z853R *				
Database expansion: Medical test object, in-						
dividual test interval, Touch-Edit, move test						
objects,						
QuickEdit, auto-store, push-print – sends	SECUTEST DB					
data directly to the PC (IZYTRONIQ).	COMFORT	Z853S *				
Report Generating Accessories						
RFID System						
RFID reader/writer for USB connection						
(frequency: 13.56 MHz)	SCANBASE RFID	Z751E				
REID tags per ISO 15693, approx, 22 mm						
dia self-adhesive. 500 pcs.	Z751R	Z751R				
REID tags per ISO 15693, approx, 30 mm						
dia 2 mm thick with 3 mm hole. 500 pcs.	Z751S	Z751S				
REID tag per ISO 15693, pigeon ring						
approx. 7.5 mm dia., 250 pcs.	Z751T	Z751T				
Barcode Scanner						
Barcode scanner for USB connection	7751A	7751A				
Barcode Printer	210111	2/0///				
Barcode and label printer including software						
with USB connection for PC or test instru-						
ment						
Encryption: Code39 Code128 EAN13 Text						
OR Code, Micro OR Code, DataMatrix, Aztec	7721F	7721F				
Label set for 7721D barcode and label		2.2.2				
printer (atv \times width: $3 \times 24/1 \times 18/1 \times$						
9 mm. 8 m long)	77220	77220				
Label set for 7721D barcode and label	2,220	2.225				
printer (atv. \times width: 5 \times 18 mm, 8 m long)	7722F	7722F				
Thermal Printer						
Thermal printer for printing test reports in-						
cluding user manual on CD-BOM lithium						
battery power pack and mains cable LISB						
cable 1 roll of thermal paper	77215	77215				
Thermal paper for 7721S	LILIO	21210				
10 rolls of thermal paper 12/50 mm dia						
$30 \text{ m} \times 112 \text{ mm}$, coating on outside	Z722S D	Z722S				
See also separate ID systems data sheet for F	RFID scanner, barco	de reader and printer				

The test instrument's serial number must be included with the order.
 Data sheet available

1 Only with feature I01(e.g. SECUTEST ST PRO and SECULIFE ST BASE)

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