

SECUTEST SII | + Testers per DIN VDE 0701, 0702 and 0751

3-349-395-03

- Testing electrical safety of electrical equipment per DIN VDE 0701-1:2000
- Testing of data processing equipment and office machines per DIN VDE 0701, part 240
- Periodic testing per DIN VDE 0702:2004
- Testing of electrical medical devices including type B, BF and CF application parts per DIN VDE 0751 and for technical safety inspection per MPG 1) (AC and DC components measured separately)
- DIN VDE 0404 is complied with
- Differential current measurement with a resolution of 1 μ A as recommended by the trade association
- · Automatic classification and test sequence
- Automatic measuring point recognition for protective conductor testing
- Preset test sequences and integrated test report templates
- . With calibration certificate per DKD
- Maximum safety for the user thanks to integrated personal safety switch



Features

Connection of the device under test:

- Via the test socket with and without adapter (accessory) for various types of mains connections
- Via connector jacks for devices under test which do not have a mains plug
- Via adapter (accessory) for extension cables with and without multiple outlets

Automatic recognition of:

- Mains connection errors
- Safety class (I or II)
- Measuring point change:

During protective conductor measurement, the test instrument recognizes whether the protective conductor makes contact with the probe and indicates the two possible states by different acoustic signals. This function is useful when several protective conductor connections have to be tested.

Menu driven test sequence:

- Fully automated or
- Manual

Data interface for PC, printer and barcodes

with direct read-out of measurement data after each individual test or at the end of a test sequence

Compact design, minimal weight

Applications

Testing the electrical safety of electrical equipment per BGV A3

The test instrument is intended for fast, safe measurement of repaired or modified electrical devices in accordance with DIN VDE 0701, and for periodic testing per DIN VDE 0702. The following are measured in accordance with the regulations:

- Protective conductor resistance
- Insulation resistance
- Protective conductor current for safety class I devices
- · Contact current for (safety class II devices)
- Absence of voltage at exposed, conductive parts (= contact current)

Measuring methods:

- Direct measurement
- Equivalent leakage current
- Differential current

Testing the electrical safety of electrical medical devices in accordance with German medical product legislation (MPG) and the applicable operator's ordinance

The **SECUTEST SII** + test instrument is intended for fast, safe testing and measurement of repaired or modified electrical devices in accordance with DIN VDE 0751.

Adherence to technical safety requirements assures safe use of electrical medical devices for users of the test instrument. The safety of the patient is also assured during use of tested electrical medical devices.

¹⁾ MPG = German medical product legislation

Testers per DIN VDE 0701, 0702 and 0751

The following are measured in accordance with DIN VDE 0751:

- Protective conductor resistance (four pole measurement)
- Insulation resistance
- · Equivalent housing leakage current
- Equivalent patient leakage current
- Device leakage current
- Patient leakage current (AC and DC components are measured separately)

Measuring methods for leakage current:

- Direct measurement
- Equivalent leakage current
- Differential current

(Mains at application part can be measured using the equivalent patient leakage current method.)

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

All measurement data can be documented and archived thanks to the measurement and test report which can be transmitted directly to a printer or printed via a PC, or stored to a PC via the printer adapter DA-II.

The SECUTEST | SI module (accessory), a memory with an integrated interface and a keypad which can be inserted into the cover, expands the test instrument's range of possible applications

Function Test with Power Analysis (also suitable for high power DUTs with a current consumption of up to 16 A)

The device under test can be subjected to a function test with line voltage via the integrated test socket.

The function test can be executed immediately after electrical safety testing has been successfully completed. The following are measured or calculated automatically:

- Line voltage
- Differential current
- Current consumption
- Active and apparent power
- Power factor
- Electrical energy
- Duty cycle

Multimeter Functions

Extensive multimeter functions including temperature measurement expand the user's measuring options in a sensible fashion. The following individual measurements are possible:

- Direct and alternating voltage
- Resistance
- Phase search
- Current via clip-on ammeter (accessory)
- Temperature via Pt100 or Pt1000 (accessories)

Features

Display

The LCD panel consists of a dot matrix at which menus, setting options, measurement results, instructions, error messages and schematic diagrams appear.

Automatic Classification and Test Sequence

The instrument detects the safety class of the device under test, and executes even complex measurements fully automatically.

RS 232 Interface for PC and Printer

This port allows for power supply and data transmission to the optionally available SI module.

Other devices can also be connected to this port with the help of an interface cable, e.g. a PC or a printer

The Help Key

Information and schematic diagrams for the current display can be accessed with this key. The appropriate information is displayed at the LCD panel.

Function Selector Switch

Test sequences and measuring functions are selected with the function selector switch. Direct allocation of the switch position to the respective test regulation simplifies operation.

Mains Plug Polarity Reversal

It is not necessary to reverse polarity at the mains plug manually. Reversal is executed during the test sequence upon request.

Test Instrument Safety Features

- Mains connection monitoring:
 Any faulty or dangerous connection is indicated, and measurement is disabled in the event of danger.
- Personal safety by means of integrated residual current monitoring.

Regulations and Standards applied for the Construction and Testing of the Test Instrument

IEC/EN 61 010-1:2001 VDE 0411-1:2002	Safety requirements for electrical equipment for measurement, control and laboratory use – general requirements
DIN VDE 0404, Part 1: 2002	Test and measuring equipment for testing the electrical safety of electrical devices – general requirements
DIN VDE 0404, Part 2: 2002	Test equipment for tests after repair, modification or in the case of periodic tests
DIN VDE 0404 Part 3: 2005	Equipment for periodic tests and tests prior to commissioning medical electrical devices or systems
DIN EN 60 529/ VDE 0470, Part 1	Test instruments and test procedures, degrees of protection provided by enclosures (IP code)
DIN EN 61 326 VDE 0843, Part 20	Electrical equipment for control technology and laboratory use – EMC requirements

Regulations and Standards for the Use of SECUTEST SII + Test Instruments

	Testing after Repairs			Periodic Testing	
DUTs to be tested in accordance with following regulations	DIN VDE 0701, part 1:2000	DIN VDE 0701, part 240	DIN VDE 0751: 2001	DIN VDE 0702: 2004	DIN VDE 0751: 2001
Electrical equipment				•	
Working devices	•			•	
Mains operated electronic devices				•	
Hand-held electric tools				•	
Extension cables	•			•	
Data processing devices		•		•	
Electrical medical devices, application parts			•		•

SECUTEST SII + **Testers per DIN VDE 0701, 0702 and 0751**

Characteristic Values

Func-	Measured Quantity	Meas. Range / Nominal Range of	Reso-	Nominal Voltage	Open- Circuit Voltage	Nom. Current	Circuit Res. Res.		Ref. . Res. Measuring Error	Measuring Error	Intrinsic Error	Overload Capacity	
LIOII	Quantity	Use	iution	U _N	Voltage U ₀	I _N	Cur. I _K	R_{l}	REF		EIIUI	Value	Time
	Device protective conductor res.	0.000 2.100 Ω	1 mΩ	_	4.5 9 V	_	> 200 mA	_	_	±(5% rdg.+ 10 d)	±(2.5% rdg.+ 5 d)	253 V	Cont.
	R _{SL}	2.11 31.00 Ω	10 mΩ		DC		DC			> 10 d	> 10 d		
	Insulation	0.050 1.500 MΩ	1 kΩ	50 500	1.0 • U _N					±(5% rdg.+10 d)	±(2.5% rdg.+5 d)		_
	resistance R _{ISO}	1.01 10.00 MΩ 10.1 310.0 MΩ	10 kΩ 100 kΩ	V DC	1.5 • U _N	> 1 mA	< 10 mA	_		1/100/ rdg : 10 d)	> 10 d	253 V	Cont.
ည	Equivalent leakage	0.00 21.00 mA	100 κ <u>ς</u> 2		230 V~					±(10% rdg.+10 d)	±(10% rdg.+10 d)		
51 Test	current I _{FA} or _I EHL	20.1 120.0 mA	100 μΑ	_	- 20 /+ 10%	_	< 3.5 mA	$> 72 \text{ k}\Omega$	1/2 kΩ ⁵⁾	±(5% rdg.+10 d)	\pm (2.5% rdg.+5 d) > 10 d	253 V	Cont.
/ 02	Equivalent patient	0.0 310.0 μΑ	100 nA		230 V~								
702	leakage current	0.300 2.100 mA	1 μΑ	_	- 20 /+	_	< 3.5 mA	$> 72 \text{ k}\Omega$	1 kΩ ±10 Ω	±(5% rdg.+10 d)	\pm (2.5% rdg.+5 d) > 10 d	253 V	Cont.
/ 0.	I _{EPA}	2.00 11.00 mA	10 μΑ		10%				1032		> 10 u		
DIN VDE 0701 / 0702 / 0751 Tests	Contact or hous- ing leakage cur. I _{Probe} or I _{GA}	0 310 μA ⁶⁾ 0.300 3.500 mA	0.1 μA 1 μA	_	_	_	_	1/2 kΩ ⁵⁾	_	±(5% rdg.+10 d)	±(2.5% rdg.+5 d) > 10 d	253 V	Cont.
	Patient leakage	0.0 310.0 μΑ	100 nA										
	current I _{PA} AC and DC com-	0.300 3.100 mA	1 μΑ					1 kΩ		±(5% rdg.+10 d)	±(2.5% rdg.+5 d)	253 V	Cont. 2, 4
	ponents measured separately	3.10 > 15.00 mA	10 μΑ	_	_	_	_ _	— 1 KC2	2 —	±(5% lug.+10 u)	> 10 d	200 V	2, 4
	Residual current ΔI between L and N $^{1)}$	0.000 3.100 mA~ 3.00 31.00 mA~ ²⁾	1 μA 10 μA	_	_	_	_	_	_	±(10% rdg.+10 d) > 10 d	±(5% rdg.+5 d) > 10 d	2)	2)
	Line voltage U _{L–N}	207.0 253.0 V~	0.1 V	_	_	_	_	_	_	_	±(2.5% rdg.+5 d)	253 V	Cont.
	Load current I _L	0 16.00 A _{RMS}	10 mA		_	_	_		_	_	±(2.5% rdg.+5 d)	20 A	10 min.
est	Active power P	0 3700 W ³⁾	1 W	_	_	_	_	_	_	_	\pm (5% rdg.+10 d) > 20 d	253 V 20 A	Cont. 10 min.
Function Test	Apparent power S	0 4000 VA	1 VA			Cald	culated valu	e, U _{L−N} • I _v	,		\pm (5% rdg.+10 d) > 20 d		
Fun	Power factor LF with sinusoidal waveshape: cosφ	0.00 1.00	0.01		Calculated value, P / S, display > 10 W			±(10% rdg.+5 d)					
	Residual current ΔI between L and N	0.00 31.00 mA~	10 μΑ	_	_		_	_	_	±(10% rdg.+10 d) > 10 d	±(5% rdg.+5 d)	2)	2)
U _{Probe}	Probe voltage (phase search)	0 253.0 V —, ∼ and ≂	0.1 V	_	_		_		_	_	±(2.5% rdg.+5 d) > 10 d	253 V	Cont.
U _{AC/DC}	Voltage Extra-low voltage, safety class III	0 253.0 V , ∼ and ≂	0.1 V	_	_		_	_		±(5% rdg.+10 d)	±(2.5% rdg.+5 d) > 10 d	253 V	Cont.
R	Resistance	0 150.0 kΩ	100 Ω	_	< 20 V -		1.1 mA		_		±(1% rdg.+3 d)	253 V	Cont.
I _{Clip}	Current via clip-on current-	0.000 10.00 A ~	1 mA (1 mV)	_	_		_	1.5 MΩ	_	_	±(3% rdg.+10 d)	253 V	Cont.
	voltage trans- former Z3510	0 100 A ∼	1 A (1 mV)	_	_		_	1.5 MΩ	_	_	> 10 d without clip	253 V	Cont.
		− 200 − 50° C	1° C								±(2% rdg.+1° C)	10 V	Cont.
Temp.	Temperature with Pt100 sensor	− 50.1 + 300.0° C	0.1° C	_	< 20 V -		1.1 mA	_	_	_	±(1% rdg.+1° C)	10 V	Cont.
		+300 +850° C	1° C								±(2% rdg.+1° C)	10 V	Cont.

¹⁾ For testing in accordance with DIN VDE 0751, device leakage current is deter-

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

mined by means of differential current measurement as part of the test sequence. As of 25 mA: shutdown within 100 ms as a result of differential current

measurement 3) Measured value P and calculated value S are compared, and the smaller of the two is displayed.

is displayed. 4) The measuring path becomes highly resistive, indication appears at the display. 5) For DIN VDE 0701/0702: 2 k Ω , for DIN VDE 0751: 1 k Ω 6) This measuring range for DIN VDE 0751 only

Testers per DIN VDE 0701, 0702 and 0751

Testing for Correct Mains Connection

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	Text at LCD panel	Press 却 key U > 40 V	Disabled
Protective conductor PE and phase conductor L reversed and/or neutral conductor N interrupted	Lamp A lights up	Voltage at PE > 100 V	Disabled
Contact voltage at protective conductor PE to neutral conductor N or phase conductor L	Text at LCD panel	U > 25 V	Disabled, but disabling can be deactivated (e.g. IT network)
Line voltage too low	Lamp lights up	U _{L-N} < 180 V	Possible

Influencing Quantities and Influence Error

Influencing Quantity / Sphere of Influence	DIN VDE 0404 Designation	Influence Error ± % of Measured Value
Change of position	E1	_
Change to test equipment supply voltage	E2	2.5
Temperature fluctuation	F0.	Specified influence error valid for temperature changes as of 10 K:
0 21 ° C and 25 40° C	E3	1 for protective cond. resistance
0 21 Gana 25 40 G		0.5 for all other meas. ranges
Amount of DUT current	E4	2.5
Low frequency magnetic fields	E5	2.5
DUT impedance	E6	2.5
Capacitance during insulation measurement	E7	2.5
Waveshape of measured current		
49 51 Hz	E8	2 with capacitive load (for equivalent leakage current)
45 100 Hz		1 (for contact current)
		2.5 for all other measuring ranges

Reference Ranges

 $\begin{array}{ll} \text{Line voltage} & 230 \text{ V} \pm 0.2\% \\ \text{Line frequency} & 50 \text{ Hz} \pm 2 \text{ Hz} \end{array}$

Line Voltage Sine (deviation between effective and recti-

fied value < 0.5%)

Ambient

temperature +23 ° C ± 2 K Relative humidity $40 \dots 60$ % Load Resistance linear

Nominal Ranges of Use

Line voltage 207 V ... 253 V Line frequency 50 Hz ±2 Hz

Line voltage

waveshape sinusoidal
Temperature 0° C ... + 50° C

Ambient Conditions

Storage temperature -20° C ... $+60^{\circ}$ C Operating Temp. -10° C ... $+50^{\circ}$ C Accuracy Range 0° C ... $+50^{\circ}$ C

Relative humidity Max.75%, no condensation allowed

Elevation Max. 2000 m

Deployment Indoors, except within specified ambient

conditions

Power Supply

Line voltage 207 V ... 253 V Line frequency 50/60 Hz Power consumption Approx. 15 VA

for function test Continuous max. 3600 VA, power is

conducted through the instrument only,

switching capacity ≤ 16 A

RS 232 Interface

Type RS 232C, serial, per DIN 19241

Configuration 9600, N, 8, 1

Connection 9-pin subminiature socket connector

Electrical Safety

Safety class I per IEC 61010-1/EN 61010-1/VDE 0411-1

Nominal voltage 230 V
Test voltage 2.35 kV, 50 Hz
Measuring category 300 V CAT II

Fouling factor 2

Safety Shutdown At DUT differential current of > 25 mA,

Shutdown time: < 100 ms Probe current: > 10 mA, < 1 ms

Electromagnetic Compatibility

Generic Standard DIN EN 61326:2002

Interference Emission		Class
EN 55022		В
Interference Immunity	Test value	Feature
EN 61000-4-2	Contact/atmos 4 kV/8 kV	A
EN 61000-4-3	10 V/m	С
EN 61000-4-4	Mains connection - 2 kV	В
EN 61000-4-5	Mains connection - 1 kV	A
EN 61000-4-6	Mains connection - 3 V	A
EN 61000-4-11	0.5 period / 100%	Α

Mechanical Design

Display Multiple display with dot matrix,

128 x 128 pixels, backlit

Dimensions LxWxH: 292 x 138 x 243 mm

Weight Approx. 4.5 kg

Protection Housing: IP 40, connectors: IP 20 per DIN VDE 0470, part 1/EN 60529, table

excerpt on the meaning of IP codes

IP XY (1 st digit X)	Protection against foreign object entry	IP XY (2 nd digit Y)	Protection against the penetration of water
0	Not protected	0	Not protected
1	≥ 50.0 mm dia.	1	Vertically falling drops
2	≥ 12.5 mm dia.	2	vertically falling drops with enclosure tilted 15°
3	≥ 2.5 mm dia.	3	Spraying water
4	≥ 1.0 mm dia.	4	Splashing water

Testers per DIN VDE 0701, 0702 and 0751

Standard Equipment

- 1 SECUTEST SII | + test instrument
- 1 Probe cable with test probe
- 1 Plug-on alligator clip for test probes
- 1 Calibration certificate per DKD
- 1 Set operating instructions
- Carrying strap
- 1 CD ROM (demo) with PS3 data management software
- 1 CD ROM (demo) with PC.doc-WORD™/EXCEL™ software for generating reports and lists, and for test data management

Accessories

Foreign Language Software SE-L.med * (on enclosed PS | 3 CD-ROM)

User interface languages which are not included as a standard feature can be uploaded from our homepage (www.gossenmetrawatt.com). One language at a time can be uploaded to the test instrument.

* Prerequisites for installing the software

Software:

- MS Windows 2000 or XP

Hardware:

- IBM compatible Windows PC, as from 200 MHz Pentium CPU with at least 64 MB RAM
- SVGA monitor
- Hard disk with at least 20 MB available memory
- Microsoft compatible mouse

Memory and Input Module SECUTEST | SI

Values measured by the test instrument can be stored to this module and furnished with comments with the help of the alphanumeric keypad. The LCD panel at the test instrument is used as a display for the module. Statistical analysis of the measurement results is also possible (percentage of tests which have been successfully passed). The SI module is screwed into the lid of the test instrument in a space-saving fashion.



Please request our **SECUTEST** | SI data sheet for further information.

SECU-cal 10 Calibration Adapter

The calibration adapter is used for testing the measuring uncertainty of test instruments in accordance with DIN VDE 0701/0702/0751. As a rule, these instruments must be tested once each year, as set forth by accident prevention regulation BGV A3 (previously VBG 4) as well as for certification in accordance with the ISO 9000 quality standard.



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

K2010 Accessory Case for SECUTEST SII + and Accessories



F2000 Accessory Pouch for SECUTEST SII + and Accessories



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PC Software for SECUTEST SII +

Analysis Software Comparison	PC.doc-WORD™/ EXCEL™ PC.doc-ACCESS™	PS 3	PS3 compact
Autonomous	Required: WINWORD/EXCEL/ ACCESS	✓ autonomous	V
Туре	Always complete	Modular	_
Included GMC-I Gossen-Metra- watt GmbH testers	SECUTEST METRATESTER®5/5-F PROF/TEST®0100S- II/C, PROF/TEST ONE, PROF/TEST 204 METRISO®C GEOHM®C (standard)	SECUTEST, SECUSTAR FM, PROFITEST®0100S- II/C, PROFITEST ONE, PROFITEST 204, METRISO®C	SECUTEST, PROFITEST® 0100S-II/C, PROFI- TEST ONE, METRISO® C
Master data management	✓ Complete with WINWORD/EXCEL/ ACCESS	✓ Fully autonomous	V
Search function	Using Access functions	✓ Autonomous	V
List generator	✓ With Access retrieval functions	✓ Autonomous	✓ Not storable
Automatic deadline follow-up	✓ Standard	✓ Included with add-on module	V
Forms generator	✓ Using WINWORD	✓ Included with add-on module	_
Statistics	Error statistics, defect statistics	✓ Option	-
Navigator	_	(module)	_
Client options	_	(module)	
Outdoor function	_	(module)	
Barcode generation	✓ (standard)	~	V
Network compatible	✓ (standard)	✓ (module)	
Inventory management	_	✓ (module)	
Viewer	_	✓ (module)	
Repairs function	_	<i>'</i>	
Document management	_	✓ (module)	
Error messaging module	_	(module)	_

Report and List Generation with PC.doc-WORD $^{\text{\tiny TM}}$ /EXCEL $^{\text{\tiny TM}}$

Prerequisite: Microsoft®WORD™ or Microsoft®EXCEL™ PC.doc-WORD™/EXCEL™ inserts test results and data entered at the test instrument input module into report or list forms. These can then be supplemented and printed out with Microsoft®WORD™ or Microsoft®EXCEL™.

Test Data Management with PC.doc-ACCESS™

Prerequisite: Microsoft®ACCESS™

PC.doc-ACCES™ manages device, machine, equipment, master and test data. Available test data are automatically entered to master data and test data lists which are assigned to individual customers.

Data are represented in accordance with the respective test regulation. Data are displayed as lists or in data sheet format, and can be sorted and filtered in a variety of different ways. Complete test data management is thus made possible.

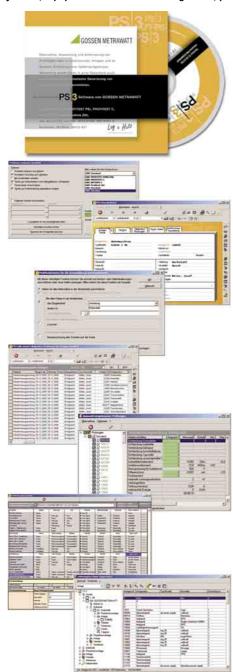
Reports and deadline lists can be printed out for selectable ID number ranges and dates.

An overview of performance features included with PC.doc-WORD™/ EXCEL™ and PC.doc-ACCESS™ is available in a separate data sheet.

Testers per DIN VDE 0701, 0702 and 0751

PS 3

Universal, modular test instrument software – Systems, equipment and service management, plus report generation



Automatic read-out and analysis of measured values from testing conducted on systems and equipment.

System and equipment management with respective test results stored to a database.

Automatic generation of test reports in accordance with recommendations issued by the trade associations

PS3-compact

Report generation and test data management for electrical devices and equipment with SECUTEST[®]..., PROFITEST[®]0100S-II, PROFITEST[®]C and METRISO[®]C

PS3 GM

Basic module and device driver, allows for the read-out of measured values from the PROFITEST®0100S-II, PROFITEST®C, METRISO®C, PROFITEST 204 and SECUTEST®... test instruments (all variants)

PS3 AM

PS3 AM (device driver, basic module and add-on module) complemented by the following modules:

- equipment management
- remote
- maintenance management
- barcode printing

PS3 add-on modules

- PS3 Navigator LHNavigator and LHViewer (prerequisite: PS3 AM)
- PS3 Client client options (prerequisite: PS3 AM)
- PS3 Hazard Analysis hazard analysis (prerequisite: PS3 AM)

PS3 update

Update to PS3 AM, version 9, including hazard analysis,
 basic software: PS3 add-on module (version 3 or 4)

PS3 upgrade

(data transfer is not guaranteed in any case, expenses and costs upon request)

Upgrade to PS3 AM including hazard analysis,

- basic software: SE-Q.base
- basic software: PC.base
- basic software: PC.doc-WORD™/EXCEL™, PC.doc-ACCESS™
- basic software: Elektromanager / Protokollmanager
- basic software: PS3 compact (any version)
- basic software: PS3 basic module (any version)

Maintenance contract

PS3 maintenance contract upon request

System Requirements for PS3

- a Windows compatible PC with at least a Pentium IV CPU
 2 GHz
- Windows 2000 SP4 / Windows XP
- working memory: 512 MB RAM
- hard disk with approx. 800 MB free memory (without data)
- CD ROM drive
- floppy disk drive or e-mail connection for loading control and/ or enable files

Testers per DIN VDE 0701, 0702 and 0751

Order Information

Designation	Туре	Article Number
Standard types available from stock	-71	
Test instrument with automatic test sequence, interface, German user interface, earthing contact plug and outlet, probe cable with test probe, plug-on alligator clip, DKD calibration certificate and operating	SECUTEST	
instructions.	SII +	M7010-V011
PC analysis software	311 +	W17010-V011
Software for maintenance and electronic equipment management	PS 3	
Report generation and test data manage-	гэ	
ment of electrical devices and systems with SECUTEST test instruments	PS3-compact	Z530K
Basic module and device driver, allows for		
read-out of measured values from the	D00 014	75005
SECUTEST test instruments Device modules, basic module and add-on module complemented by the following modules — electronic equipment management — remote — maintenance management	PS3 GM	Z530E
- barcode printing	PS3 AM	Z531N
PC software for generating reports and lists as supplement to MS Word/EXCEL (language version German/English/French/ Finnish/Polish) (Exception: EXCEL part only in German/English)	PC.doc-WORD TM / EXCEL ^{TM D)}	Z714A
PC software for test data management as		
supplement to MS-ACCESS	PC.doc-ACCESS™ D)	
(language version German/English)		Z714B
Upgrade from PC.doc win/med to PC.doc-WORD™	PC.doc upgrade	Z714C
Upgrade from PC.base to PC.doc-ACCESS™	PC.base upgrade	Z714D
Update for SE-Q.base and PS3 compact to PS3	Z530U	Z530U
Accessories for Report Generation		
SI module with the languages German, English, French, Dutch, Italian, Spanish and Czech, batteries and operating instructions	SECU TEST SI	M702F
Printer adapter for direct connection of	DA II	774514
external printers	DA-II	Z745M
Barcode scanner	B3261	GTZ 3261 000 R0001
Barcode and label printer with software	Z721D	Z721D
Label set for Z721D printer (qty. x width: 3 x 24, 1 x 18 and 1 x 9 mm, 8 m long each)	Z722D	Z722D
Label set for Z721D printer		
(5 lengths, 18 mm wide x 8 m long)	Z722E	Z722E
Accessories Probe, Sensors, Adapters a	nd Cables	
Probe cable, 2 m	SK2	Z745D
Probe cable, 5 m	SK5	Z745K
Brush probe	Z745G	Z745G
Pt100 temperature sensor, -40 to +500° C,		
for surface and immersion measurements	Z3409	GTZ 3409 000 R0001
Pt100 oven sensor, -50 to +550° C	TF550	GTZ 3408 000 R0001
	11 000	
Switchable clip-on current 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,		

Adapter for testing single-phase extension cables including earth contact and inlet plug inserts Plug insert for EL1 in CH per SEV PRO-CH Plug insert for EL1 in GB per BS PRO-GB PRO-GB Flug insert for EL1 in GB measurement PRO-GB/ring GTZ 3225 000 R0001 Plug insert for EL1 in Italy per IMQ PRO-I Plug insert for EL1 in DK PRO-DK GTZ 3227 000 R0001 Plug insert for EL1 with 3 connector cables for any connection standards Plug insert for EL1 with 10 m cable for PE measurements and the like PRO-UNI GTZ 3214 000 R0002 Schuko plug insert or similar (replacement plug, included with EL) Test adapter for tests on devices with CEE16 and CEE32 connections 3-phase current adapter 16A/32A (test case) for connection to the test instrument for tests per DIN VDE 0701, 0702, 0751 and IEC 601 Adapter for connecting devices under test: 3-pole 16 A, 5-pole 16 A + 32 A, 5 ea. 4 mm jacks Cable set for connecting butts, consisting of connector socket with 3 permanent cables, 3 measurement cables, 3 pick-off clips, 2 plug-on test probes Cable set (1 pair of measurement cables) 1.2 m, with VDE-GS symbol Additional Accessories Calibration adapter for test instruments per DIN VDE 0701/0702/0751 (max. 200 mA) not to be used for protective conductor test current of 10 A Carrying pouch PRO-CH GTZ 3228 000 R0001 GTZ 3214 000 R0003 FRO-UNI GTZ 3214 000 R0003 FRO-UNI GTZ 3214 000 R0003 Test adapter for tests on devices with Carrying pouch GTZ 3214 000 R0003 Test adapter for tests on devices with Carrying pouch AT3-II-S D) Z745T Z745T Z745S AT3-III-E D) Z745S AT3-III-E D) Z745S AT3-III-E D Z745S AT3-III-E D Z745S CEE-Adapter Z745A	Designation	Туре	Article Number
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(replacement plug, included with EL)		PRO-RLO	G1Z 3214 000 R0002
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Additional Accessories Calibration adapter for test instruments per DIN VDE 0701/0702/0751 (max. 200 mA) not to be used for protective conductor test current of 10 A Carrying pouch GOT V/CAT IV 16 A KS17-2 GTY 3520 034 P01 KS17-2 GTY 3520 034 P01 SECU-cal 10 Z715A			
Additional Accessories Calibration adapter for test instruments per DIN VDE 0701/0702/0751 (max. 200 mA) not to be used for protective conductor test current of 10 A Carrying pouch SECU-cal 10 Z715A Carrying pouch		V017 0	CTV 2500 024 D01
Calibration adapter for test instruments per DIN VDE 0701/0702/0751 (max. 200 mA) not to be used for protective conductor test current of 10 A SECU-cal 10 Z715A Carrying pouch F2000 DJ Z700D	111111	KS17-2	GTY 3520 034 P0T
DIN VDE 0701/0702/0751 (max. 200 mA) not to be used for protective conductor test current of 10 A Carrying pouch SECU-cal 10 Z715A Z700D			
not to be used for protective conductor test current of 10 A SECU-cal 10 Z715A Carrying pouch F2000 DJ Z700D			
test current of 10 Å SECU-cal 10 Z715A Carrying pouch F2000 D Z700D			
		SECU-cal 10	Z715A
Carrying case K2010 7504I	Carrying pouch	F2000 ^{D)}	Z700D
Carrying Caco 1200TL	Carrying case	K2010	Z504L

D) Data sheet available

For additional information on accessories, please refer to

- our Measuring Instruments and Testers Catalog
- our website www.gossenmetrawatt.com

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