

# PROFITEST<sup>®</sup> C

## Test Instrument per DIN VDE 0100

3-349-075-03  
11/10.06

### Testing of Residual-Current Devices (RCDs)

- Measures contact voltage without tripping the RCCB.  
Contact voltage relative to nominal residual current is measured with  $\frac{1}{3}$  nominal residual current.
- Trip test with nominal residual current and measurement of time to trip

### Special Testing for Systems and RCCBs

- Testing for systems and RCCBs with rising residual, tripping current is displayed
- Testing for RCCBs (10, 30 mA and 100 mA) with  $5 \cdot I_{\Delta N}$
- Tests RCCBs with half-waves in order to determine contact voltage and tripping current

### Testing for Special RCCBs

- Selective **S**, type G

### Measurement of line voltage and frequency, phase angle and sequence

### Measurement of loop and earthing resistance



QUALITY MANAGEMENT SYSTEM



DQS certified per  
DIN EN ISO 9001:2000  
Reg. No. 1262



### Special Features

- Allowable fuse types are displayed for the system under test.
- Internal measurement value memory with 32 kB capacity stores up to 255 electrical circuits and up to 2000 measurement values.
- Data interface for the transmission of measurement values and for software updates

### Voltage and Frequency Ranges

The measuring device allows for use of the test instrument in all alternating and three phase current systems with voltages ranging from 170 to 253 V, and frequencies from 15 to 70 Hz.

### Loop Impedance Measurement

Loop impedance measurement can be performed within a range of 170 to 253 V. Subsequent calculation of short-circuit current is based upon the respective line voltage, assuming that the measured line voltage is within the specified range. If line voltage is not within the specified range, short-circuit current is calculated based upon actual line voltage and measured impedance. RCCB tripping can be suppressed for the measurement of loop impedance with the PROFITEST<sup>®</sup>DC-II accessory device.

### Display

The LCD window consists of a backlit dot matrix which is used to display menus, configuration options and measurement results, as well as online help. Various user interface languages can be selected, depending upon the country in which the test instrument is used.

### Operation

The instrument is very easy to operate. A multifunction key allows for one-handed operation when selecting menus and starting measurements. Basic functions and sub-functions are selected with the help of four softkeys. For systems with earthing contact outlets, the instrument is simply connected to the mains outlet with the test plug.

### Phase Tester

Protective conductor potential is tested when the finger contact surface is touched. The PE signal lamp lights up if a potential difference of greater than 150 V is detected between the contact surface and the earthing contact at the test plug.

### Battery Charge Level Indicator and Device Self-Test

A battery symbol in the main menu with 5 segments ranging from depleted to fully charged keeps the user continuously informed concerning battery charge level. Test patterns can be queried one after the other in the self-test mode, and display LEDs and relays can be tested. The test instrument is switched off automatically if the batteries are depleted, and it includes a charge control circuit for safe charging of commercially available rechargeable NiMH or NiCd batteries.

### Sturdy Housing for Rugged Use

Soft plastic jacketing protects the instrument against impacts, or if it is inadvertently dropped.

### Signal Lamps

The device recognizes errors in the electrical system automatically, which are indicated with four lamps, (see following table).

Lamp	Status	Meas. Function	Function
PE	lights up red	all	<b>Device on</b> and potential difference $\geq 150$ V between finger contact and PE (earthing contact), frequency: $f > 45$ Hz
NETZ/MAINS	lights up green	$I_{\Delta} / R_E / Z_{Loop}$	3-pole connection: line voltage approx. 170 V to 253 V, measurement enabled
NETZ/MAINS	blinks green	$I_{\Delta} / R_E / Z_{Loop}$	2-pole connection (e.g. N conductor not connected): line voltage approx. 170 V to 253 V, measurement enabled
NETZ/MAINS	blinks red	$I_{\Delta} / R_E / Z_{Loop}$	Line voltage $<$ approx. 170 V or $>$ 253 V, measurement disabled
$U_L$	lights up red	$I_{\Delta}$	– Contact voltage $U_{I\Delta N}$ or $U_{I\Delta} > 25$ V or $> 50$ V – Safety shutdown has occurred. <sup>^</sup>
		$R_E$	– Limit value for $R_E$ exceeded
RCD/FI	lights up red	$I_{\Delta}$	The RCCB was not tripped, or was tripped too late during the trip test.

### Data Interface

Measurement data can be read out to a printer or a PC via the integrated IRDA interface, providing the user with 3 advantages.

- Transmission of stored data to a PC for processing and archiving, or for the generation of official reports
- Immediate print-out of all measurement data (via adapter)

### Software Updates

The test instrument will never become obsolete thanks to software updates which can be installed via the IRDA interface. Updates can be performed by our service department as part of our re-calibration service, or by the user himself.

### Applicable regulations and Standards

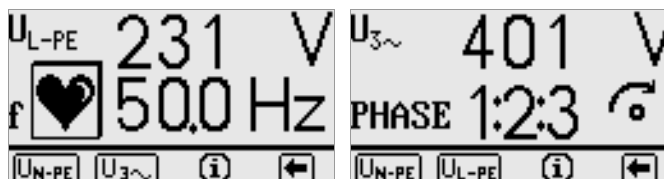
IEC 61010-1/EN 61010-1/ VDE 0411-1	Safety requirements for electrical equipment for measurement, control and laboratory use
IEC 61557/ EN 61557/ VDE 0413	Part 1: General requirements Part 3: Loop resistance measuring instruments Part 6: Devices for testing residual current devices (RCDs) for correct functioning, and for testing the effectiveness of protective safety measures in TT and NT systems Part 7: Phase sequence indicators
DIN 43751 Part 1, 2	Digital measuring instruments
VDE 0106 Part 1	Protection against electric shock, classification of electric and electronic equipment
EN 60529 VDE 0470 Part 1	Test instruments and test procedures, protection provided by enclosures (IP code)
DIN EN 61326 VDE 0843 Part 20	Electrical equipment for measurement, control and laboratory use – EMC requirements

### Sample Displays

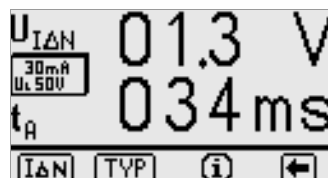
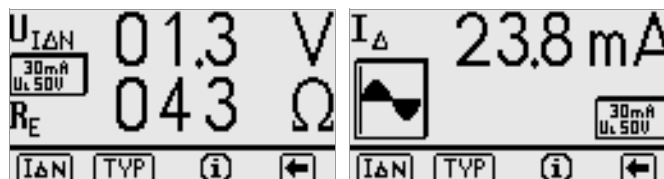
#### Main Menu



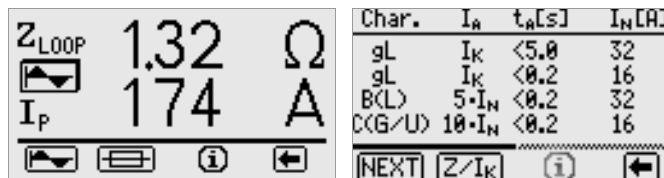
#### Voltage Measurement



#### Testing Residual Current Circuit Breakers (RCCBs)



#### Loop Impedance Measurement and Fuse Characteristics



#### Online Help and Earthing Resistance Measurement



# PROFiTEST<sup>®</sup> C

## Test Instrument per DIN VDE 0100

### Characteristic Values

Function	Measured Quantity	Measuring Range (display range)	Resolution	Input Impedance/ Test Current	Nominal Values	Intrinsic Error	Nominal Range of Use	Measuring Error			
$U_{L-PE}$ $U_{N-PE}$	$U_{L-PE}$ $U_{N-PE}/U_{L-N}$	0 ... 99.9 V 100 ... 300 V (0 ... 600 V)	0.1 V 1 V	500 k $\Omega$	—	$\pm(2\% \text{ rdg.} + 2 \text{ d})$	108 ... 253 V	$\pm(4\% \text{ rdg.} + 3 \text{ d})$			
	f	15.0 ... 99.9 Hz (15.0 ... 650 Hz)	0.1 Hz	500 k $\Omega$	—	$\pm(0.1\% \text{ rdg.} + 1 \text{ d})$	15 ... 70 Hz	$\pm(0.2\% \text{ rdg.} + 1 \text{ d})$			
$U_{3-}$	$U_{3-}$	0 ... 99.9 V 100 ... 500 V (0 ... 600 V)	0.1 V 1 V	500 k $\Omega$	—	$\pm(2\% \text{ rdg.} + 2 \text{ d})$	108 ... 440 V	$\pm(4\% \text{ rdg.} + 3 \text{ d})$			
$I_{\Delta}$	$U_{I_{\Delta N}}$	0 ... 99.9 V	0.1 V	$0.3 \cdot I_{\Delta N}$	$U_N = 230 \text{ V}$ $f_N = 50 \text{ Hz}$ $U_L = 25/50 \text{ V}$ $I_{\Delta N} = 10/30/100/300/500 \text{ mA}$	$+(12.5\% \text{ rdg.} + 2 \text{ d})$ $+(2.5\% \text{ rdg.} - 2 \text{ d})$	5 ... 70 V	$+15\% \text{ rdg.} + 2 \text{ d}$ $+0\% \text{ rdg.} - 0 \text{ d}$			
	$R_E / I_{\Delta N} = 10 \text{ mA}$	10 $\Omega$ ... 9.99 k $\Omega$	10 $\Omega$	$0.3 \dots 1.3 \cdot I_{\Delta N}$		—	calculated value	—			
	$R_E / I_{\Delta N} = 30 \text{ mA}$	3 $\Omega$ ... 999 $\Omega$ 1 k $\Omega$ ... 6.40 k $\Omega$	3 $\Omega$ 10 $\Omega$								
	$R_E / I_{\Delta N} = 100 \text{ mA}$	1 $\Omega$ ... 999 $\Omega$	1 $\Omega$								
	$R_E / I_{\Delta N} = 300 \text{ mA}$	0.3 $\Omega$ ... 99.9 $\Omega$ 100 $\Omega$ ... 640 $\Omega$	0.3 $\Omega$ 1 $\Omega$								
	$R_E / I_{\Delta N} = 500 \text{ mA}$	0.2 $\Omega$ ... 99.9 $\Omega$ 100 $\Omega$ ... 380 $\Omega$	0.2 $\Omega$ 1 $\Omega$	0.1 mA		$3.0 \dots 13.0 \text{ mA}$ $9.0 \dots 39.0 \text{ mA}$ $30 \dots 130 \text{ mA}$ $90 \dots 390 \text{ mA}$ $150 \dots 650 \text{ mA}$	$\pm(5\% \text{ rdg.} + 2 \text{ d})$	3.0 ... 13.0 mA 9.0 ... 39.0 mA 30 ... 130 mA 90 ... 390 mA 150 ... 650 mA	$\pm(8\% \text{ rdg.} + 2 \text{ d})$		
	$I_{\Delta} / I_{\Delta N} = 10 \text{ mA}$	3.0 ... 13.0 mA									
	$I_{\Delta} / I_{\Delta N} = 30 \text{ mA}$	9.0 ... 39.0 mA									
	$I_{\Delta} / I_{\Delta N} = 100 \text{ mA}$	30 ... 130 mA									
	$I_{\Delta} / I_{\Delta N} = 300 \text{ mA}$	90 ... 390 mA									
	$I_{\Delta} / I_{\Delta N} = 500 \text{ mA}$	150 ... 650 mA									
	$U_{I_{\Delta}} / U_L = 25 \text{ V}$	0 ... 25.0 V	0.1 V							same as $I_{\Delta}$	$+(12.5\% \text{ rdg.} + 2 \text{ d})$ $+(2.5\% \text{ rdg.} - 2 \text{ d})$
$U_{I_{\Delta}} / U_L = 50 \text{ V}$	0 ... 50.0 V										
$t_A (I_{\Delta N}/5 \cdot I_{\Delta N})$	0 ... 99.9 ms 100 ... 999 ms	0.1 ms 1 ms	$1.05 \cdot I_{\Delta N} / 5 \cdot I_{\Delta N}$	$\pm 3 \text{ ms}$	0 ... 1000 ms	$\pm 4 \text{ ms}$					
$Z_{loop}$	$Z_{loop}$	0 ... 0.49 $\Omega$ 0.5 ... 9.99 $\Omega$ 10.0 ... 30.0 $\Omega$	10 m $\Omega$ 10 m $\Omega$ 100 m $\Omega$	740 mA	$U_N = 120 \text{ V}$ $U_N = 230 \text{ V}$	$\pm 5 \text{ d}$ $\pm(6\% \text{ rdg.} + 3 \text{ d})$ $\pm(6\% \text{ rdg.} + 3 \text{ d})$	0.25 ... 0.49 $\Omega$ 0.50 ... 9.99 $\Omega$ 10.0 ... 30.0 $\Omega$	$\pm(10\% \text{ rdg.} + 5 \text{ d})$ $\pm(10\% \text{ rdg.} + 5 \text{ d})$ $\pm(10\% \text{ rdg.} + 5 \text{ d})$			
	$Z_{loop} 15 \text{ mA}$	0 ... 99.9 $\Omega$ 100 ... 250 $\Omega$	100 m $\Omega$ 1 $\Omega$	15 mA		$\pm(6\% \text{ rdg.} + 5 \text{ d})$ $\pm(6\% \text{ rdg.} + 3 \text{ d})$	0.50 ... 99.9 $\Omega$ 100 ... 250 $\Omega$	$\pm(15\% \text{ rdg.} + 10 \text{ d})$ $\pm(10\% \text{ rdg.} + 10 \text{ d})$			
$R_E$	$R_E$	0 ... 0.49 $\Omega$ 0.5 ... 9.99 $\Omega$ 10.0 ... 99.9 $\Omega$ 100 ... 999 $\Omega$ 1.00 k ... 9.99 k $\Omega$	10 m $\Omega$ 10 m $\Omega$ 10 m $\Omega$ 100 m $\Omega$ 1 $\Omega$	740 mA 740 mA 400 mA 40 mA 4 mA	$f_N = 50 \text{ Hz}$	$\pm 5 \text{ d}$ $\pm(6\% \text{ rdg.} + 3 \text{ d})$ $\pm(4\% \text{ rdg.} + 3 \text{ d})$ $\pm(4\% \text{ rdg.} + 3 \text{ d})$ $\pm(4\% \text{ rdg.} + 3 \text{ d})$	0.25 $\Omega$ ... 0.49 $\Omega$ 0.50 $\Omega$ ... 9.99 $\Omega$ 10.0 $\Omega$ ... 99.9 $\Omega$ 100 $\Omega$ ... 999 $\Omega$ 1 k $\Omega$ ... 9.990 k $\Omega$	$\pm(10\% \text{ rdg.} + 5 \text{ d})$ $\pm(10\% \text{ rdg.} + 5 \text{ d})$ $\pm(8\% \text{ rdg.} + 5 \text{ d})$ $\pm(8\% \text{ rdg.} + 5 \text{ d})$ $\pm(8\% \text{ rdg.} + 5 \text{ d})$			

### Reference Conditions

Line Voltage	230 V $\pm 0.1\%$
Line Frequency	50 Hz $\pm 0.2 \text{ Hz}$
Measured Quantity	
Waveshape	sine (deviation between effective and rectified values < 1%)
System Impedance	
Angle	$\cos \varphi = 1$
Battery Voltage	5.5 V $\pm 1\%$
Ambient Temperature	$+23 \text{ }^\circ\text{C} \pm 2 \text{ K}$
Relative Humidity	40 ... 60%
Finger Contact	for testing potential difference to earth potential

System Impedance  
Angle

corresponds to  $\cos \varphi = 1 \dots 0.95$

### Power Supply

Batteries	4 ea. 1.5 V baby cell (4 x C size) (alkaline-manganese per IEC LR14) or 4 rechargeable NiCd/NiMH batteries
Batter Test	Symbolic display
Battery Saving Circuit	Display illumination can be deactivated. The test instrument is switched off automatically 10 to 60 seconds after the last key operation. ON-time can be selected by the user.
Safety Shutdown	The instrument is switched off if supply voltage drops to below the specified level, or it cannot be switched on.
Charging Socket	Rechargeable batteries can be recharged inside the instrument by connecting the NAO100S (Z501D) charger to the charging socket.

### Nominal Ranges of Use

Voltage $U_N$	230 V (108 ... 253 V)
Frequency $f_N$	$16^{2/3} \text{ Hz}$ (15.4 ... 18 Hz) 50 Hz (49.5 ... 50.5 Hz) 60 Hz (59.4 ... 60.6 Hz)
Overall Frequency Range	15 ... 70 Hz
Waveshape	sine
Temperature Range	0 $^\circ\text{C}$ ... +40 $^\circ\text{C}$
Battery Voltage	4.6 ... 6.5 V

### Overload Capacity

$U_{L-PE}$ , $U_{L-N}$	600 V continuous
$F_i$ , $R_E$ , $Z_{Loop}$	300 V (limited to the number of measurements and the off period, a thermostatic switch prevents execution of the function if overload occurs)
Fine-Wire Fuse Protection	1 A 10 s, > 2 A – fuses blow

### Electrical Safety

Safety Class	II per IEC 61010-1/EN 61010-1/ VDE 0411-1
Operating Voltage	300 V
Test Voltage	3.7 kV 50 Hz
Measuring Category	III
Contamination Level	2
Electromagnetic Compatibility EMC	IEC 61326/EN 61326
Fuses	
Terminals L and N	1 cartridge fuse link each, F1H250V 5 mm x 20 mm

### Ambient Conditions

Operation	-10 ... + 50 °C
Storage	-20 ... + 60 °C (without batteries)
Relative Humidity	max. 75%, no condensation allowed
Altitude	max. 2000 m
Deployment	indoors, outdoors only within the specified ambient conditions

### Mechanical Design

Display	multiple dot matrix display, 128 x 64 pixels (65 mm x 38 mm), illuminated
Dimensions	275 mm x 140 mm x 65 mm
Weight	approx. 1.2 kg with batteries
Protection	housing: IP 52 per DIN VDE 0470 part 1/EN 60529 with pressure compensating diaphragm of microporous ePTFE, non-ageing, 8 mm dia. in battery compartment lid

Extract from table on the meaning of IP codes

IP XY (1 <sup>st</sup> digit X)	Protection against foreign object entry	IP XY (2 <sup>nd</sup> digit Y)	Protection against the penetration of water
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
5	dust protected	5	water jets

### Data Interface

Type	infrared interface (SIR/IrDa) bidirectional, half-duplex
Format	9600 baud, 1 start bit, 1 stop bit, 8 data bits, no parity, no handshake
Range	max. 10 cm recommended distance: < 4 cm

### Standard Equipment

- 1 PROFiTEST®C test instrument
- 1 carrying strap
- 1 set batteries
- 1 operating instructions
- 1 PC software WinProfi for communication with PROFiTEST®C. The PS3 CD-ROM includes the software WinProfi with the following content and functions:
  - up-to-date test instrument software
    - for loading other user interface languages
    - for loading firmware version updates
  - Transmission of measured data from test instrument to PC

# PROFiTEST<sup>®</sup>C

## Test Instrument per DIN VDE 0100

### PROFiTEST<sup>®</sup>C Accessories

#### Variable Plug Adapter Set



Three self-retaining, contact protected test probes for the connection of measurement cables with 4 mm banana plugs, or with contact protected plugs for sockets with an opening of 3,5 mm to 12 mm, e.g. CEE and Perilex sockets etc.

The test probes also fit the

square PE jacks on Perilex sockets. Maximum allowable operating voltage: 600 V per IEC 61010.

#### Three-Phase Current Adapters



A3-16, A3-32 and A3-63 three-phase current adapters allow for trouble-free connection of testers to 5-pole CEE sockets. The three models have different sized plugs which correspond to 5-pole CEE sockets with 16 A, 32 A and 63 A nominal current. Phase sequence is indicated with signal lamps. Testing for the effectiveness of protective measures is conducted with five, 4 mm contact protected sockets.

conducted with five, 4 mm contact protected sockets.

#### DI-MON1



Residual current monitor for acquiring leakage current which only occurs sporadically at individual consumers. Allows for easy detection of faulty load consumers.

### PROFiTEST<sup>®</sup>DC-II

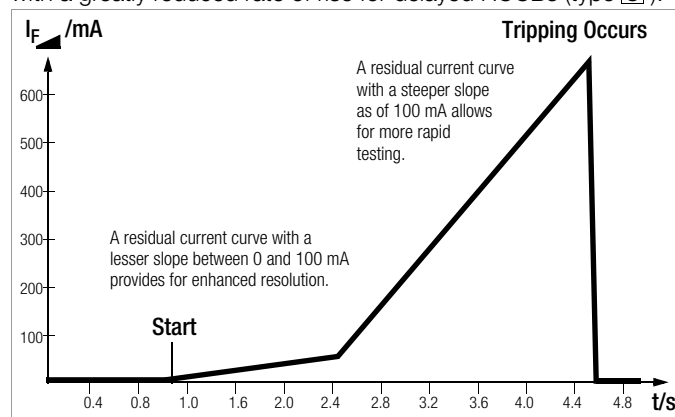


#### Applications

- Tripping test for direct current components of AC-DC sensitive RCCBs
  - For measurement of tripping current
  - For measurement of time to trip
  - For testing delayed and undelayed RCCBs
- Loop impedance measurement with the PROFiTEST<sup>®</sup>C with suppression of RCCB triggering

#### Tripping Test for AC-DC Sensitive RCCBs with Rising DC Residual Current and Measurement of Tripping Current

A slowly rising direct current is applied to N and PE with the selector switch in the  $I_F$  position. The measured current value is displayed continuously. When the RCCB is tripped, the last measured current value is displayed. Measuring is conducted with a greatly reduced rate of rise for delayed RCCBs (type S).

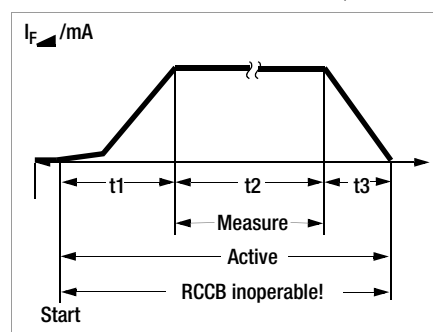


#### Tripping Test for AC-DC Sensitive RCCBs with Constant DC Residual Current and Measurement of Time to Trip

With the selector switch set to the respective nominal residual current, twice the nominal current is applied to N and PE. Time to trip is measured and displayed for the RCCB.

#### Loop Impedance Measurement with the PROFiTEST<sup>®</sup>C with Suppression of RCCB Triggering

The PROFiTEST<sup>®</sup>DC-II allows for the measurement of loop impedance in TN systems with RCCBs (10, 30, 100, 300, 500 mA nominal residual current).



The test instrument generates a DC residual current which saturates the magnetic circuit of the RCCB. The PROFiTEST<sup>®</sup>C superimposes a measuring current which demonstrates only half-waves of like polarity. The RCCB cannot detect

this measuring current and can thus no longer be tripped during measurement.

# PROFiTEST<sup>®</sup>C

## Test Instrument per DIN VDE 0100

### Winprofi

#### Software for communication between test instruments and PC

This software is used to update the following test instruments: PROFITEST<sup>®</sup>0100S-II, PROFITEST<sup>®</sup>C, METRISO<sup>®</sup>C, GEOHM<sup>®</sup>C, PROFITEST 204 and METRAtest 36ASi. The software is freeware and runs under Windows 95, 98, NT4 and 2000.

It provides the following functions:

- updating test instrument firmware
- downloading measured values
- uploading test reports (PROFITEST 204 only)
- generation of simple reports (PROFITEST 204 only)
- can be installed free of charge from any PS3 CD ROM

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<sup>®</sup>..., PROFITEST<sup>®</sup>0100S-II, PROFITEST<sup>®</sup>C and METRISO<sup>®</sup>C

#### PS3 GM

Basic module and device driver, allows for the read-out of measured values from the PROFITEST<sup>®</sup>0100S-II, PROFITEST<sup>®</sup>C, METRISO<sup>®</sup>C, PROFITEST 204 and SECUTEST<sup>®</sup>... 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

Upgrade to PS3 AM including hazard analysis,

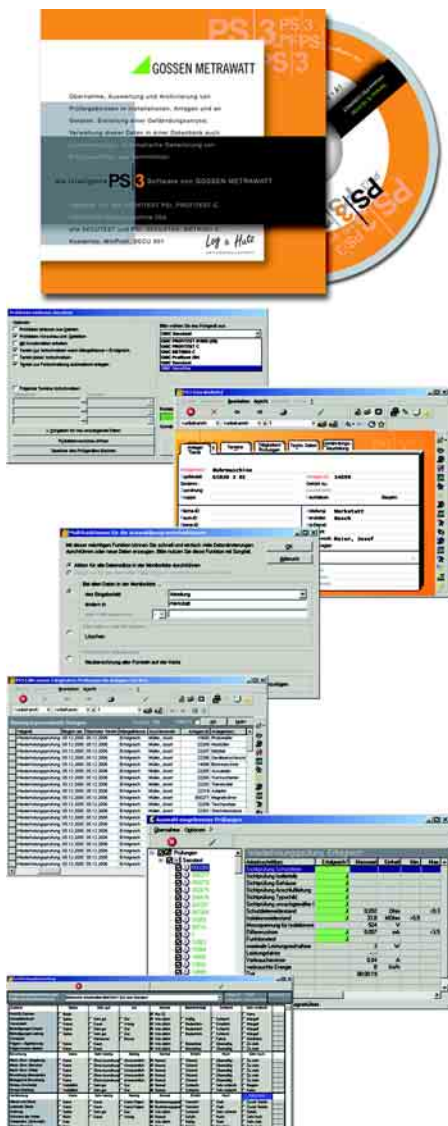
- basic software: SE-Q.base
- basic software: PC.base
- basic software: PS3 compact (any version)
- basic software: PS3 basic module (any version)

#### Maintenance contract

PS3 maintenance contract upon request

## PS | 3

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



# PROFiTEST<sup>®</sup> C

## Test Instrument per DIN VDE 0100

Red index card corner:  
Data are available here.

Index card system assures clarity.

All common approval reports can be generated.

Freely selectable index cards

Link to test instruments

LH Viewer Light displays Bitmaps and JPEG images

The screenshot shows three main windows:

- PS3 (Main Form):** A data entry form for a power circuit. It includes fields for 'Stromkreisbez.: Hausanschlußraum', 'Stromkreis-Nr.: A03', 'FHD: GMC-HAUS01-UU1-Q1', and 'Stromkr.-ID.: GMC-HAUS01-UU1-Q1-A03'. It also has sections for 'Überstrom-Schutzeinrichtung' and 'Leitung/Kabel'.
- LHViewer Light:** A window displaying a photograph of an electrical cabinet (Schrank) with various components and wiring.
- LHNavigator:** A tree view showing a hierarchy of data: 'Kundenverwaltung' -> 'Gebäude' -> 'GMC-HAUS01' -> 'Verteiler' -> 'GMC-HAUS01-UU1' -> 'Stromkreis'. A table on the right lists circuit details:
 

Stromkreisbez.:	Stromkreistyp:	Stromkr.-ID.:
Wohnzimmer		GMC-HAUS01-UU1-Q1-A01
Küche		GMC-HAUS01-UU1-Q1-A02
Hausanschlußraum		GMC-HAUS01-UU1-Q1-A03
		GMC-HAUS01-UU1-Q1-A04
		GMC-HAUS01-UU1-Q1-A05
		GMC-HAUS01-UU1-Q1-A06
		GMC-HAUS01-UU1-Q2-A07
		GMC-HAUS01-UU1-Q2-A08

LH Navigator:  
Rapid overview of customers, buildings, distributors, electrical circuits and systems / devices

Frequently required entries can be specified automatically

Freely definable column layout

Automatic branching to corresponding electrical circuit card or any other hierarchical level is accomplished by double clicking

### 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

### Order Information

Designation	Type	Article Number
<b>Basic Instruments</b>		
Universal instrument for testing protective safety measures per DIN VDE 0100 in accordance with DIN VDE 0413, parts 1, 3, 6 and 7	PROFiTEST <sup>®</sup> C	M521A
Same as above but with Swiss plug instead of earthing contact plug	PROFiTEST <sup>®</sup> C-CH	M521B
Set consisting of PROFiTEST <sup>®</sup> C, METRISO <sup>®</sup> C, 3-pole adapter, IrDa 0100 adapter cable and measurement cables KS17 in carrying case HC 40	Set PROFiTEST <sup>®</sup> C/ METRISO <sup>®</sup> C	M508A
<b>Expansions</b>		
Test instrument as described on page 5 including connector cable and operating instructions	PROFiTEST <sup>®</sup> DC-II <sup>D)</sup>	M523A
Residual current monitor	DI-Mon 1	M662B
IR interface for connection to an USB PC port for transmission of data between the PC and the PROFiTEST <sup>®</sup> C, e.g. for software updates at the test instrument or for visualization of measured values at the PC	IrDa-USB Converter	Z501J
<b>Plug Inserts and Adapters</b>		
3-phase measuring adapter	3-Pole Adapter	Z521A
3-phase measuring adapter for PROFiTEST <sup>®</sup> C with Swiss plug	3-Pole Adapter/CH	Z521B
3-phase measuring adapter for PROFiTEST <sup>®</sup> C with UK plug	3-Pole Adapter/UK	Z521C
5-pole 3-phase adapter for 16 A CEE outlets	A3-16	GTZ 3602 000 R0001
5-pole 3-phase adapter for 32 A CEE outlets	A3-32	GTZ 3603 000 R0001
5-pole 3-phase adapter for 63 A CEE outlets	A3-63	GTZ 3604 000 R0001
Variable Plug Adapter Set	Z500A	Z500A
Adapter for PROFiTEST <sup>®</sup> DC-II for use in systems without earthing contact outlets	3-Pole Adapter f. DC-II	Z523A

Designation	Type	Article Number
<b>Accessories</b>		
Charger for recharging batteries while inside the PROFiTEST <sup>®</sup> C	NA 0100S	Z501D
Hard case for 1 test instrument (PROFiTEST <sup>®</sup> C, METRISO <sup>®</sup> C or GEOHM <sup>®</sup> C) and accessories	HC30-C	Z541C
Hard case for 2 test instruments (PROFiTEST <sup>®</sup> C, METRISO <sup>®</sup> C or GEOHM <sup>®</sup> C) and accessories	HC40	Z541 D
<b>PC Analysis Software</b>		
Software for maintenance and electronic equipment management	PS3	
Report generation and test data management of electrical devices and systems with SECUTEST <sup>®</sup> ..., PROFiTEST <sup>®</sup> 0100S-II, PROFiTEST <sup>®</sup> C, and METRISO <sup>®</sup> C test instruments	PS3-compact	Z530K
Basic module and device driver, allows for read-out of measured values from the test instruments (same test instruments as for PS3-compact, plus PROFITEST 204)	PS3 GM	Z530E
Device modules, basic module and add-on module complemented by the following modules – electronic equipment management – remote – maintenance management – barcode printing	PS3 AM	Z531N
PC software for the generation of reports and lists in addition to MS-Word (German/English language version)	PC.doc-WORD <sup>™</sup> <sup>D)</sup>	Z714A
PC software for the management of test data in addition to MS-Access (German/English language version)	PC.doc-ACCESS <sup>™</sup> <sup>D)</sup>	Z714B
Upgrade of PC.doc win/med... to PC.doc-WORD <sup>™</sup>	PC.doc upgrade	Z714C

<sup>D)</sup> Data sheet available

For additional information on accessories, please refer to

- our *Measuring Instruments and Testers Catalog*
- our *website [www.gossenmetrawatt.com](http://www.gossenmetrawatt.com)*