



PC.doc-WORD-EXCEL
Manual
(02/2012)

Contents

Contents	2
Introduction to PC.doc-WORD-EXCEL	3
1. System Requirements	3
1.1 Hardware	3
1.2 Software	3
2. Installing the Program	3
3. Compatibility of Data	5
4. Generating Protocols for WINWORD	5
4.1 Starting PCDOCW	5
4.1 Reading Data from the Device	6
4.1.1 Reading Data from the SECUTEST or PROFITEST PSI Module	6
4.1.2 Reading of Data from the PROFITEST 204	7
4.1.3 Reading of Data from the METRATESTER 5 RADIO	8
4.1.3.1 PASS Criteria for the Test	9
4.2 Reading Data from File	9
4.3 Filling the Data into a FRM Template.	10
4.3.1 Working with Lists of Appliances / OUTDOOR-Function(VDE 0702/0751, IEC 601)	12
4.3.2 VDE0100 Certificates	12
4.4 Completing a Protocol	13
4.5 Editing / Printing of completed Protocols	13
5. Changing existing templates / Editing the file VT100str	14
5.1 Changing existing templates	14
5.2 Editing the file VT100str	14
6. Administering using Excel	15
6.1 Activating Excel-Macros	15
6.2 saving the data to an Excel worksheet	16
6.3 Import Inventory Data	18
6.4 Sorting Data with the Excel Sorting Function	19
6.5 Sending of inventory data into PROFITEST MASTER	20
Appendix B Copyright Notice	22

Introduction to PC.doc-WORD-EXCEL

PCDOC-WIN is a software for generating protocols based upon the MICROSOFT OFFICE product WINWORD. The following safety testers produced by GOSSEN-METRAWATT are supported: SECUTEST 0701/0702S, SECUTEST 0751/601, METRATESTER 5, MINITEST and PROFITEST 0100S.

PCDOCW for WINWORD fills measurements results or data entered into the PSI Module into protocol or list templates. The protocols can be edited and completed and printed using WINWORD.

1. System Requirements

1.1 Hardware

- IBM-compatible PC with
- 128 MB RAM
- 1 free serial interface
- 20 MB disk storage

1.2 Software

- MS WINDOWS XP, Vista, Windows 7
- MS WORD 2003 / 2007 / 2010

2. Installing the Program

Before installing the program, you should have installed WINWORD. Also make sure that the RTF converter has been installed for WINWORD.

Insert the program disk into drive A:. Start SETUP.EXE and follow the instructions for installation.

Program Setup - PCDOCW V8.0

Enter The Program Directory:
C:\Gossen-Metrawatt\PCDOCW\

Customer No: DEMO starts with 491 (see DIN A4 Supplement or CD label). Keep 'DEMO' as indicated

Company: EMP

Department:

Name: 1

Street: 1

Postal Code: 1

City: 1

Telephone: 1

Fax: 1

Email: 11

Country (abbrev): 1

Country abbreviation, for example, GB for Great Britain, A for Austria, C for Switzerland, etc.
Please complete all fields indicated with an asterisk *

Quit OK

IMPORTANT
Please fill in your company name here. Also enter the company name in this format on your registration card. (the first line is used for your registration). Also take note of the following page. Fill all fields with marked *

Installation menu - selecting the editor

Program Setup - PCDOCW V8.0

The Program Directory:
<C:\Gossen-Metrawatt\PCDOCW\>

Customer No	DEMO
Company	EMP
Department	
Name	1
Street	1
Postal Code	1
City	1
Telephone	1
Fax	1
Email	11
Country (abbrev)	1

Your ID number: 7821F18DB13E2BD0

Enter the serial number (call the dealer or leave empty for DEMO):

The serial number can be obtained by sending a request form.
Activate the button "Fax-Formular" (fax form) or "Email Registrierung" (e-mail registration) for this purpose.

The telefax number (+49 911/59892-20) is quoted on the request form,
the e-mail address (emp-n@t-online.de) is generated automatically.

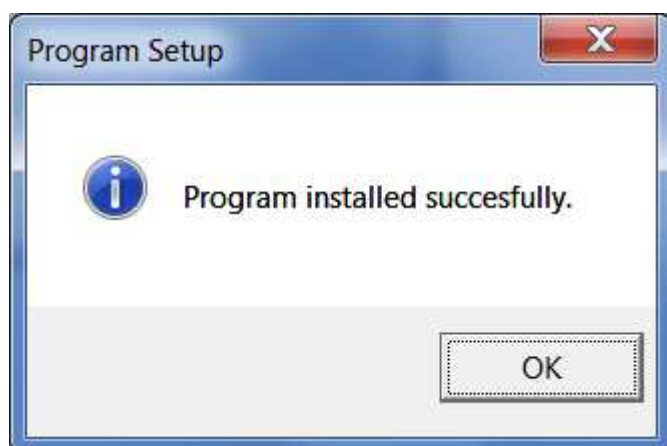
You will receive your registration with the serial number without delay.

Fax Formular Email Registrierung Back OK

Installation menu: Entering the code number after registration

The installation program determines a ID number of your PC. Please click on Fax Form or Email Registration. On Fax Form it will open WORD. Print out the Word-Document **without any changes**. You will soon receive an answer fax with the code for your PC. When entering your address and code number, please ensure to spell your company name in the same way as is done on the return fax (capital letters may be spelt differently).

Note: You may test the program before registering. Up to 5 devices or circuits are supported in demo mode. After installation the program reports which modules have been purchased.



End of installation:

Note: The ID number is coupled to the Customer name and therefore the program can be run on more PCs. Purchasing PCDOCW allows you to re-register later if you exchange the PC.



End of installation: Program group with Icon

After installation you will find a program group with the PCDOCW Icon.
Note: The installation procedure changes the path of the AUTOEXEC file in order that you can start PCDOCW from any directory. Please restart the computer to activate the new path.

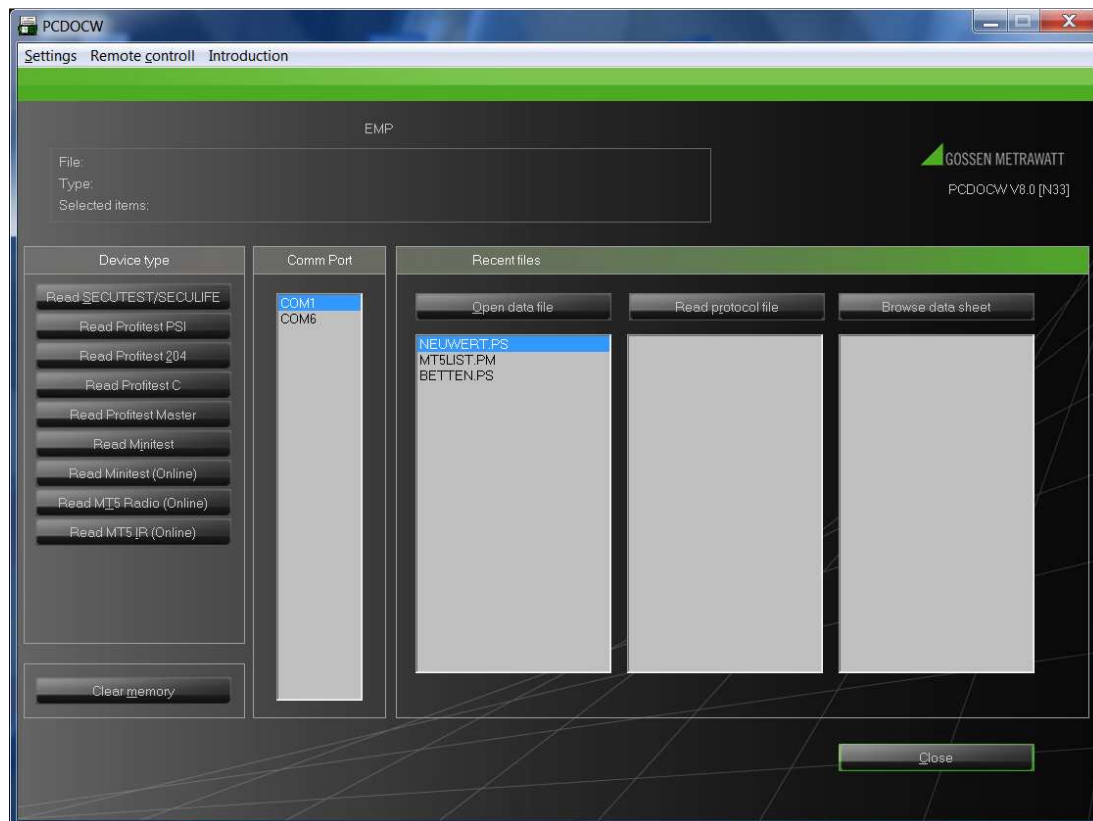
3. Compatibility of Data

PCDOC-WIN allows you to read measurement data from a tester or from file. Measurement data from the DOS program PC.doc can also be read. In addition to the PCDOC PSI format the data is stored in the terminal LOG format. This allows the program to be compatible with other programs that support this format.

4. Generating Protocols for WINWORD

4.1 Starting PCDOCW

Double click on the program icon.



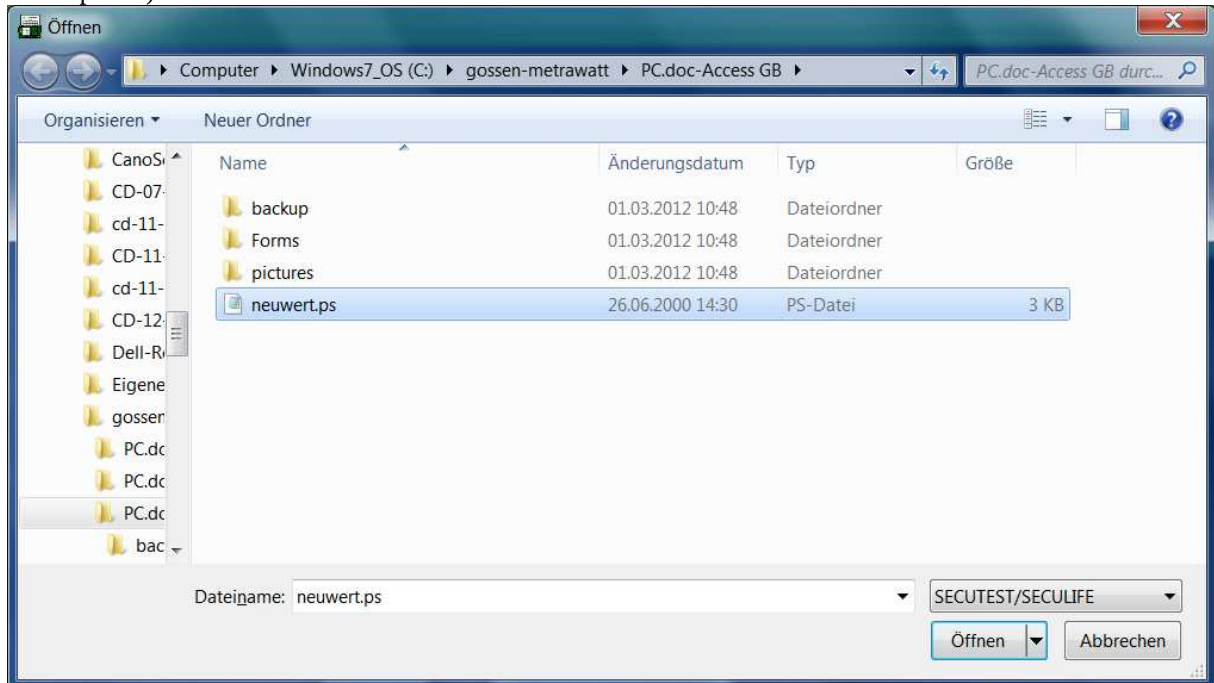
PCDOCW: Program window

The program PCDOCW program window appears on the screen.
First select the COM interface to which your tester is connected.

4.1 Reading Data from the Device

4.1.1 Reading Data from the SECUTEST or PROFITEST PSI Module

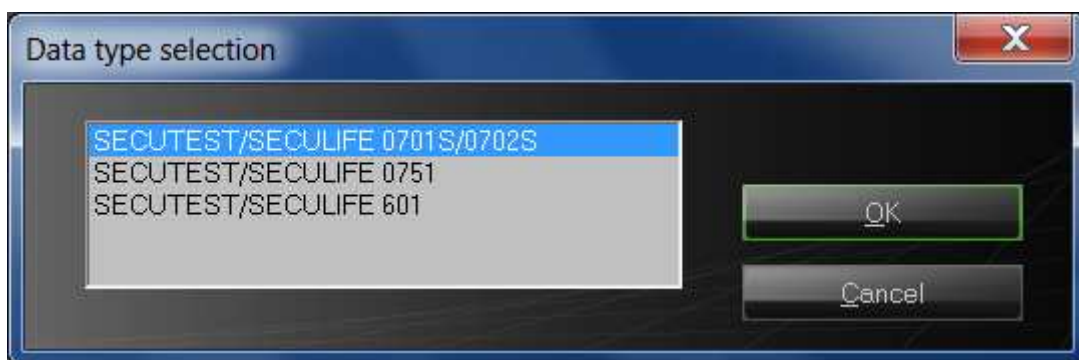
- Connect the PSI Module to the free selected COM port of your PC
- Switch on the PSI Module (this applies only to the SECUTEST PSI Module if it is not connected to a tester with power).



PCDOCW: Reading device data: file selection

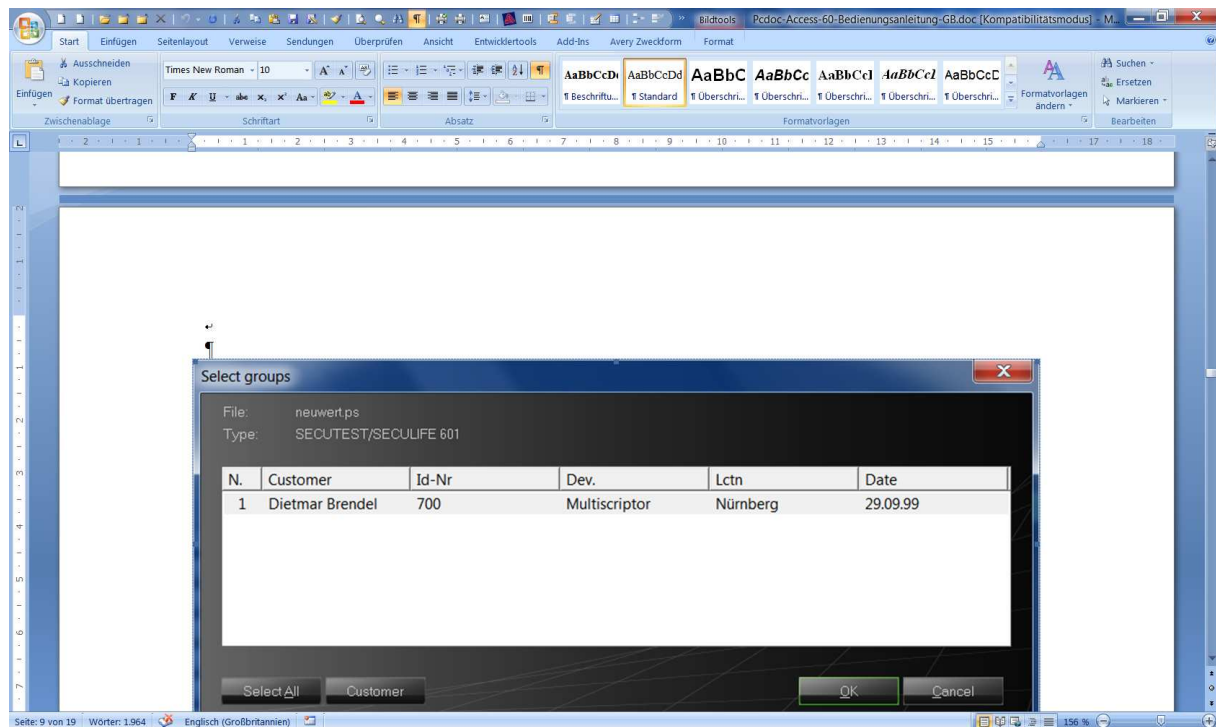
- Select "Read tester data".
- In the menu "Save as" select the file name for storing the device data.
- Select "OK". The device data is stored.

Note: For device data without ID number the program automatically generates an ID number starting with "@", e. g. "@01".



PCDOCW: Selecting the data format for SECUTEST

- For tests according to differing regulations with the SECUTEST, select what type of data you want to document.



PCDOCW: Selecting devices for generating a protocol

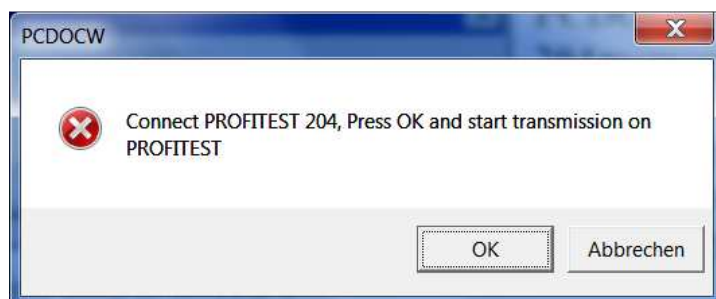
- Select the equipment or circuits from the list for which you want to generate a protocol. (This is identical to reading data from file). For VDE0100 tests you can select all circuits belonging to one building by selecting "Select Building".

Note: For data compatibility you may also read data from a terminal LOG file.

4.1.2 Reading of Data from the PROFITEST 204

Connect the SUB D COM cable directly to the PROFITEST 204 (not to the PSI-module).

- Click onto "Read PROFITEST 204" in order to read the device memory.



PCDOCW: Reading PROFITEST 204 memory

- In the menu "Save as" enter the filename for storing the raw memory data.
- Select "OK". The machine data is stored.

Select groups

File: profi204.p2
Type: PROFITEST 204

N.	Data record	Comment	Measurement	Time	Command
1	1	Maschine1	28.11.1999	14:30	1
2	2	Maschine2	30.11.1999	11:48	1

Select All Select Test OK Cancel

PCDOCW:
Selecting the
PROFITEST
204 machine

- Select the machine from the list box

4.1.3 Reading of Data from the METRATERSTER 5 RADIO

- Connect the radio receiver to the PC COM port.
- Select "METRATERSTER 5 RADIO"

METRATERSTER 5 RADIO/IR

ID No:
Dev.Adr:

Classification:

☐ I
☐ II
☐ I IT
☐ II IT
☐ I Heat <6kW
☐ I Heat >6kW
☐ Ext. cord

Ext. cord:

L <= m
D = mm?

Visual inspection:

Protective conductor ☒
Housing ☒
Insulating parts ☒
Mains cord ☒
Markings ☒
Other ☒
Vis. inspect. OK

Measurement	Meas. value	Limit value	Result
Prot. cond. continuity		max 0.3 Ohm	-
Insulation resistance		min 1.0 MOhm	-
Equivalent leakage current		max 3.5 mA	-
Probe current		max 0.5 mA	-
Differential current		max 3.5 mA	-
Functional test			☒

Test result: F

Cancel End Next Data

PCDOCW: METRATERSTER 5 - RADIO test

- Within the dialogue window "METRATERSTER 5 RADIO" type in the ID number of the appliance under test, the protection class and classification and the results of the visual inspection.
- Now perform the measurements with the METRATERSTER 5 RADIO. For each test press the METRATERSTER 5 button. The PC receives the data, beeps and displays the results in the appropriate fields.

Note: If your PC has a sound card adjust the volume to maximum in order to distinguish whether the data transmission worked correctly.

- After performing the tests enter the result of the functional test. If all relevant test results are within the allowed limits and the visual inspection is OK then the result is marked as OK.

4.1.3.1 PASS Criteria for the Test

The test is marked as OK if the functional and visual inspection tests have been marked as OK, the relevant measured values are within limits and the other tests which are not needed by the regulation but were performed are also within limits.

Note: The test result criteria correspond to the regulations DIN VDE0701 part 1 (October 1986) and to DIN VDE 0701 part 240 (April 1986). However, according to the DIN VDE 0702 the differential current measurement is considered and allowed as an alternative method to the insulation resistance measurement.

The program does not consider:

- the limit value of 0.1 Ohm for fixed equipment according to the DIN VDE 0701,
- protection class III limits according to DIN VDE0701,
- taking the differential resistance into account for the protective conductor according to DIN VDE 0701 part 240.

The following table shows the PASS FAIL criteria of the tests:

Measurement	I	II	I IT	II IT	I Heat <3kW	I Heat >3kW	Ext. Lead
RPE (Ohm)	<u><0,3</u>	-	<u><0,3</u>		<u><0,3</u>	<u><0,3</u>	<Table
RINS (MOhm)	<u>>0,5</u>	<u>>2</u>	-	-	<u>>0,5</u>	<u>>0,5</u>	<u>>2</u>
IEL (mA)	<7	-	<7	-	<7	<15	-
IP (mA)	<0,5	<0,5	<u><0,25</u>	<u><0,25</u>	<0,5	<0,5	-
IDIFF (mA)	<u><3,5</u>	<u><3,5</u>	<3,5	<3,5	<u><3,5</u>	<u><3,5</u>	<3,5
Condition for PASSING the test: FTEST AND VIS AND:	RPE AND (RINS OR IDIFF) AND RINS<>F AND IDIFF<>F AND IEL<>F AND IP<>F	(RINS OR IDIFF) AND RINS<>F AND IDIFF<>F AND IP<>F	RPE AND IP AND IEL<>F AND IDIFF<>F	IP AND IEL<>F AND IDIFF<>F	RPE AND ((If RINS =F then IEL) OR IDIFF) AND IEL<>F AND IP<>F	RPE AND ((If RINS =F then IEL) OR IDIFF) AND IEL<>F AND IP<>F	RPE AND (RINS) AND RINS<>F AND IDIFF<>F AND IP<>F

Table: PASS- FAIL criteria

The calculation for the limits of extension leads is done according to the following table:

Diameter (mm ²)	Limit value (Ohm) L = Length in m
0,5	0,1 + L*0,0374
0,75	0,1 + L*0,02493
1	0,1 + L*0,0187
1,5	0,1 + L*0,0133
2,5	0,1 + L*0,0074
4	0,1 + L*0,004675

Table: Calculating the limit value for extension leads.

4.2 Reading Data from File

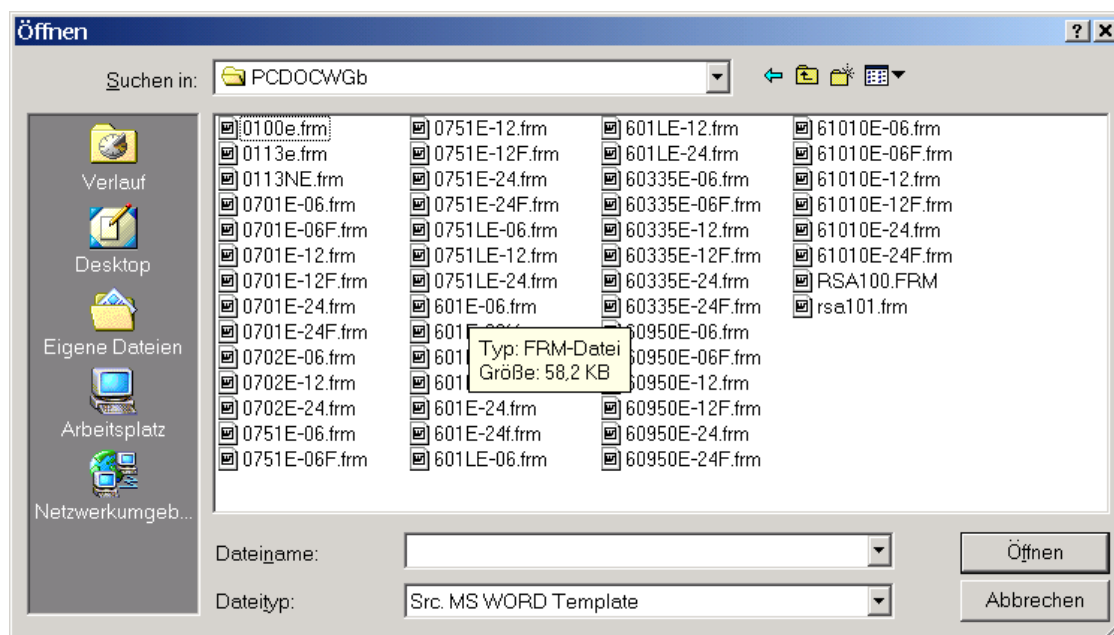
- Select "Open File"
- Choose the file type.
- Select the file with the measured data.
- Select those appliances or circuits for which you want to generate a protocol. For VDE0100 tests you may select all circuits belonging to one building by first selecting any circuit within the building and then clicking onto "Building".

4.3 Filling the Data into a FRM Template.

The data is inserted into empty WORD form templates (ending with ".FRM"). These are stored in RTF format. The disk contains the following .FRM files.

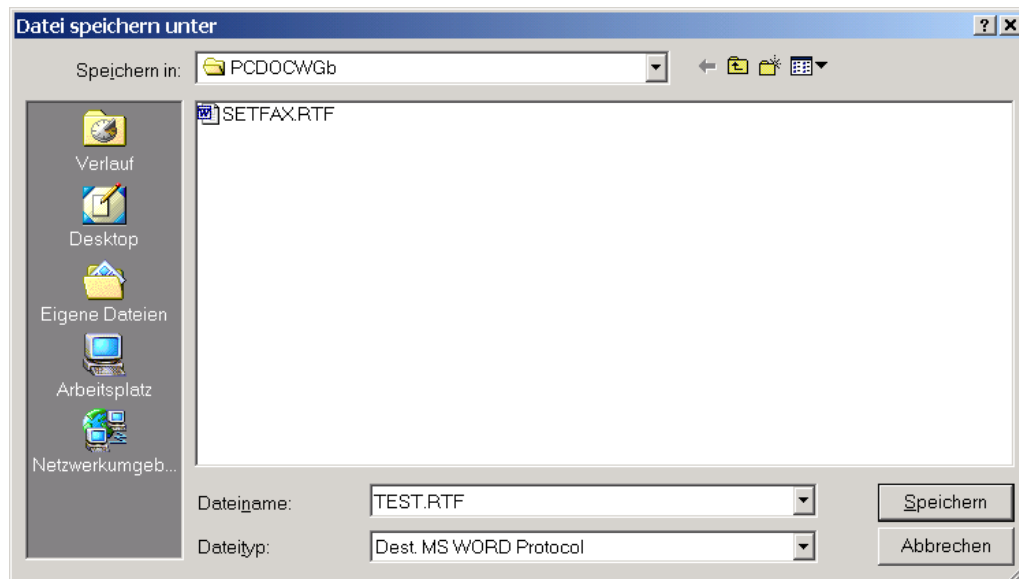
File name	Form template
0100e.FRM	PROFITEST 0100S with PROFITEST-PSI / PSI-T according to ZVEH-recommendation with evaluation of the limits
0113e.FRM	PROFITEST 204 for testing according to VDE 0113
0701e.FRM	SECUTEST 0701/0702S according to the ZVEH-recommendation
0702e.FRM	SECUTEST 0701/0702S for generating lists for repetitive testing
0751e.FRM	SECUTEST 0751/601 for testing according to VDE 0751
751Le.FRM	SECUTEST 0751/601 list form for testing according to VDE 0751
601e.FRM	SECUTEST 0751/601 for testing according to IEC601
601Le.FRM	SECUTEST 0751/601 list form for testing according to IEC601

Contents of the FRM template files



PCDOCW: Selecting the FRM template

- Click onto "Fill FRM File".
- Select the FRM file.



PCDOCW: Selecting the protocol file

- Enter the destination file name.

Test Certificate		
Electrical Safety Testing of Repaired Appliances		
Order number:		
Customer:		Electrical workshop:
		DEMO
		k
		k k
Appliance:	Manufacturer:	Type:
ID number.: 0004	Insulation class: I	Year of man.:
Rated current (A):	Rated voltage(V):	Rated power (W):
Incoming date:	Repair date: 15.05.04	Return date:
Fault description:		Labour / parts:

PCDOCW: Protocol file under MICROSOFT WORD

- The measurement data is inserted. Word is started and reads the protocol file.

4.3.1 Working with Lists of Appliances / OUTDOOR-Function(VDE 0702/0751, IEC 601)

Appliance lists differ from protocols in that the results of several tests are recorded on one sheet of paper in list form. An appliance list may contain test results from one or more PSI modules or tests. The most important criterion for an appliance list is a unique identification code for each appliance. It is advisable to generate an ID numbering system with non recurring ID numbers and to attach bar code labels to the appliances at or before the first test. The measurement data is automatically sorted according to the date of testing. The list contains fixed appliance data and test results and a simple method of management of repetitive testing. The interval between tests is situated at the top end of the form. The default interval is 12 months. If you want to modify this interval, change the .FRM file.

When first reading the data from the PSI Module use the FRM file as template, e. g. VDE0702e.FRM. Define a measurement protocol file, e. g. LIST.RTF. After retesting the appliances use this list file as "Protocol form". Define a new name for the destination file, e. g. LIST1.RTF.

For **VDE0702 data** the fixed data is taken from the previous list, and the new set of test results is appended. If test results are missing for appliances, the relevant test data is appended to the end of the list. Check if these devices are still available. If they are no longer present, remove the relevant data with WINWORD.

For **VDE0751** and **IEC 601** data the complete history is always copied,

Data from new appliances is appended to the file LIST.RTF and written to LIST1.RTF.

You may either add data from different PSI modules to one list file or add new data from the same PSI Module to the list.

4.3.2 VDE0100 Certificates

The screenshot shows the 'VDE100 table' window with the following fields and values:

- Circuit no.: 001
- Location: STAND GOSSEN-METRAWATT
- Cable:
 - Type: NYM
 - No of conductors: 2
 - Diameter [mm?]: 1,5
- Overcurrent device:
 - Type/Characteristic: B/E (L) <0,2s/0,4s
 - In [A]: 10
 - Rloop [Ohm], Ik [A]:
 - Ri [Ohm], Ik [A]:
- Insulation Resistance:
 - Rins [Ohm], U [V]:
- RCD (earth leakage)-Device:
 - In [A], Art UL<[V]: / N 50
 - Idn [A], Uidn [V]: 30m 2,9
 - Id [A], Uid [V]:
 - ta [s]: 0
- Mains:
 - Un [V], fn [Hz]:
- Test period: Month
- Buttons: Auto-Check, Cancel, OK

PCDOCW: Entering the circuit data for VDE0100 measurements

For VDE 0100 wiring compliance certificates the measurement results are automatically checked by PCDOCW. Select the appropriate form (VDE0100e.FRM).

Besides the fields for the room, conductor type, number and conductors and crossectional area, there are command buttons for default circuits, type of conductors, number of conductors and crossectional area. These default values may be changed. Please refer to "5.2 Editing of the file V100str".

Enter the fixed data for the circuit. This set of data is automatically taken as a default for the following circuits. Select "OK". Now the measurement results are checked by PCDOCW. If a test result does not comply with the limit values defined in the program, a warning appears and the value is marked by underlining it. The button "AUTO Check" takes the fixed data of the present circuit for all following records.

Certain data on the first page of the certificate, like the test protocol number, are repeated on the following pages. These are marked with text markers under WORD. If you want WORD to update these fields, mark the complete document and press F9 or select print preview. WORD automatically updates the fields before printing.

The program contains the following limit values:

Prospective short circuit current ISC: This value depends upon the size and type of fuse (see PROFITEST 0100S short manual).

Mains internal impedance RI: Similar to ISC.

Insulation resistance: >0.5 MOhm

Touch voltage: UIDN < UL

RCD tripping current: Id < Idn

RCD tripping time: for N an O RCD types tA < 200ms
for S types 200ms < tA < 500ms

The nominal fuse current is compared to the crossectional area of the conductor for multiple sheathed conductors. (Group 2 according to VDE0100)

Nominal crossection (mm²)	Maximum fuse current (A)
0,75	6
1	10
1,5	10
2,5	20
4	25
6	35
10	50
16	63
25	80
35	100
50	125
70	160
95	200
120	250
150	250
185	315
240	400
300	400

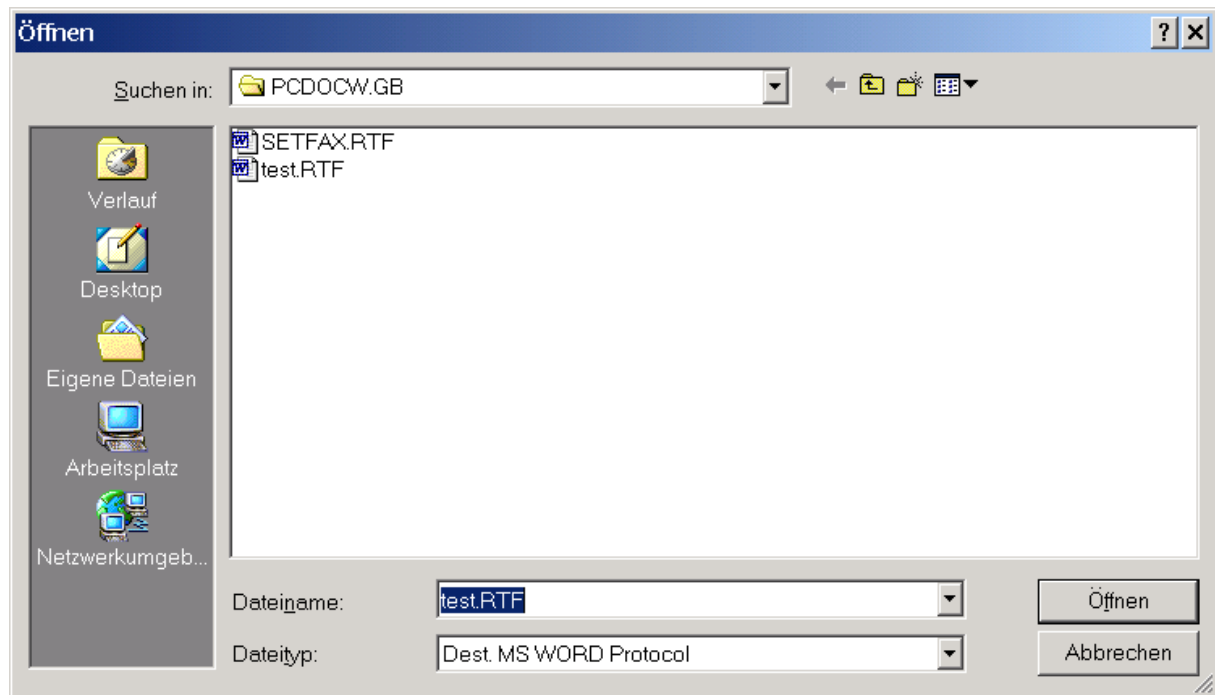
Table: Relationship between fuse type and minimum crossectional conductor area for NYM cables

4.4 Completing a Protocol

Each protocol contains fields for editing. complete these fields and print out the protocol under WORD.

4.5 Editing / Printing of completed Protocols

Generated protocols may be edited using MS WORD. You may select these files directly in the PCDOCW window by selecting "Open Protocol File". Choose the desired file in the pop up menu.



PCDOCW: Opening a protocol file

WINDWORD is now started and automatically loads the selected protocol file.

5. Changing existing templates / Editing the file VT100str

5.1 Changing existing templates

In order to change an existing template please proceed as follows:

- Close all applications.
- Open WORD for WINDOWS
- Click onto "Open File" and select the appropriate template from the PCDOCW directory (e. g. VDE0701.frm).
- Select the command button "¶" in order to display all characters in the form.
- Now change the form. Please change only texts and do not delete the control characters.
- In the file menu select "Save as ..." and create a new filename. (e. g. VDE0701b) . Please note that the file type must be "RTF" (Rich Text Format). The template is now stored under a new name.
- After saving the file close Word and start the WINDOWS Explorer. Find your changed form template, e. g. VDE0701b) This file ends with ".RTF" (e.g. VDE0701b.rtf). Select the file with right hand mouse button and select "Rename". Now rename the file to have the ending ".frm" instead of ".rtf" (e.g. vde0701b.frm). Now you may use this form with PC.doc-win.
- If while using the new template, you get an error, then you have deleted some control characters when doing the change.

5.2 Editing the file VT100str

In order to edit the file VT100str proceed similar to the form template. However, do not save the file as .rtf but as .txt file. The new filename is thus VT100str.txt .

Using the Explorer, rename the original file to VT100str.org and rename the file VT100str.txt to VT100str (without ending)

6. Administering using Excel

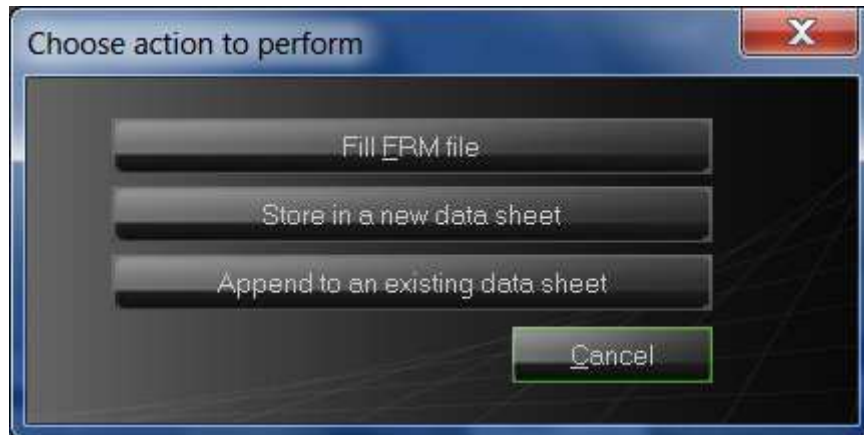
6.1 Activating Excel-Macros

The Excel functionality utilises Excel macros. Therefore you have to permit the use of macros. Start Excel. Select the menu Tools/Macro/Security. Choose medium or low.

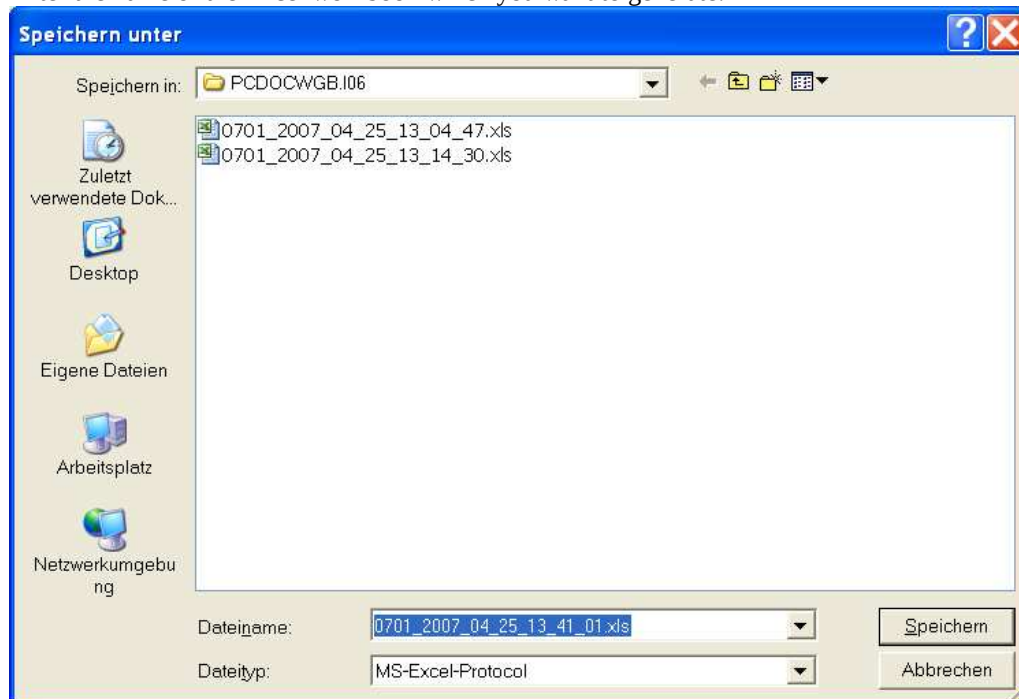
6.2 saving the data to an Excel worksheet

For storing the data select an excel Workbook.

If the workbook has been used before the data is appended to the existing data.



Enter the name of the Excel workbook which you want to generate.



Excel is started and the data is appended to the test data table.

Microsoft Excel - 0701_2007_04_25_13_14_30.xls

Frage hier eingeben

D3

VDE0701 Protocol VDE0702 Protocol Delete Duplicates

VDE0701 Prot+Fun VDE0702 Prot+Fun

VDE0701 List VDE0702 List

	Name	ID Number	Appliance	Manufacturer	Type	Date	Test result	Class	Additional Specification	Cord length	Heat power
7	Brendel	100	Bügeleisen	Bosch	G20	29.05.05	OK	I		1	
8	Dietmar Brendel	200	Fernseher	Grundig	R4	29.05.05	OK	I		200	
9	Dietmar Brendel	300	PC	Siemens	ProD6	29.05.05	OK	I		240	
10	Dietmar Brendel	400	Bohrhammer	AEG	GHAA5	29.05.05	OK	I		260	
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											

Test Data / Inventory /

Bereit

The table contains a single row per measurement. There are many fields. For a better overview there is a special inventory data sheet.

6.3 Import Inventory Data

	Name	ID Number	Appliance	Manufacturer	Test result	Type	Class	Cord length	Heating power	Date	Info
7	Dietmar Brendel	400	Bohrhammer	AEG	OK	GHAA5	I			29.05.05	
8	Dietmar Brendel	300	PC	Siemens	OK	ProD6	I			29.05.05	
9	Dietmar Brendel	200	Fernseher	Grundig	OK	R4	I			29.05.05	
10	Brendel	100	Bügeleisen	Bosch	OK	G20	I			29.05.05	
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											

Press the button Import for importing the inventory data.

Each device is imported only once. The column “Date” contains the date of test. The column “Next Test” contains the date of the next test according to the test interval in months.

Exporting Inventory Data

You may edit fields in the inventory sheet. By clicking onto “Export” the changes are transferred to the Test Data sheet

Filter Inventory Data

The button “Filter” allows you to select specific records of the inventory data. Use this function for selecting the appliances due for testing and transferring the data back to the tester. In this way if you enter an ID number in the tester its corresponding data is displayed and the testing profile (class, length of power cord, heating power) selected.

The 'Filter' dialog box is used to set up filter criteria for a data range. It contains three filter sections (Filter, Filter 2, Filter 3). Each section has a 'Field' dropdown, a 'Function' dropdown, and a 'Value' text box. Below the filter sections are buttons for 'Customer', 'ID Number', and 'Due'. At the bottom, there is a summary line 'Filter = (Filter 1) AND (Filter 2) AND (Filter 3)', a 'Delete' button, a 'Calculate' button, and an 'OK' button.

The buttons “Customer“, “ID Number“ and “Due“ refer to the activated cell of the Excel sheet.

“Due” means that the appliance is due for testing.

You may enter up to three filter functions which are logically ANDED. I. e. all conditions must be true for the row to be displayed.

The column “Field” allows you to select any column of the inventory data.

The column “Function” defines the function of the condition. Like means that a part of the value may match the field.

The column “Value” defines the value for comparison.

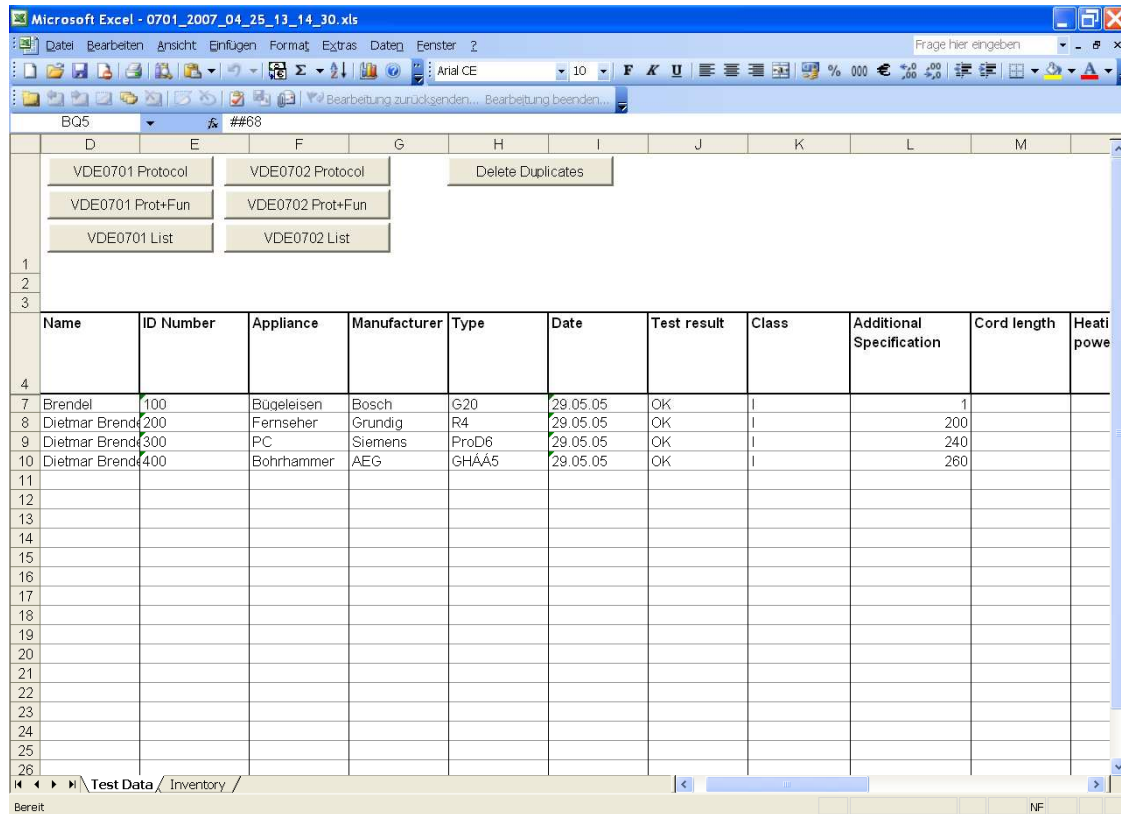
“Calculate” calculates the filter condition, displays it in the bottom field and on the inventory sheet.

6.4 Sorting Data with the Excel Sorting Function

Mark the rows which you want to sort. Select Data/Sort. Enter your sorting criteria.

The 'Sortieren' dialog box is used to sort data. It has three sections: 'Sortieren nach', 'Anschließend nach', and 'Zuletzt nach'. Each section has a dropdown for the field and radio buttons for 'Aufsteigend' (Ascending) and 'Absteigend' (Descending). At the bottom, there is a section 'Datenbereich enthält' (Data range contains) with radio buttons for 'Überschrift' (Header) and 'Keine Überschrift' (No header). Buttons for 'Optionen...', 'OK', and 'Abbrechen' are at the bottom.

Test Data Buttons



“VDE0701 Protocol“ generates a one page 0701 Protokoll.

“VDE0702 Protocol“ generates a one page 0702 Protokoll.

“VDE0702 and VDE0702 List“ generates a list.

“Delete Duplicates” deletes duplicate table entries.

6.5 Sending of inventory data into PROFITEST MASTER

Switch the testing device PROFITEST MASTER on.

Doubleclick on the icon of PCDOCW program.

The new COM port should be selected (see Chapter 3 - Installing of USB-Serial Adapters/Devices).

If there is some data stored already in the testing device then you can read it as described in Chapter 5.2 and store it into a new or existing Excel sheet as described in Chapter 5.3.3.

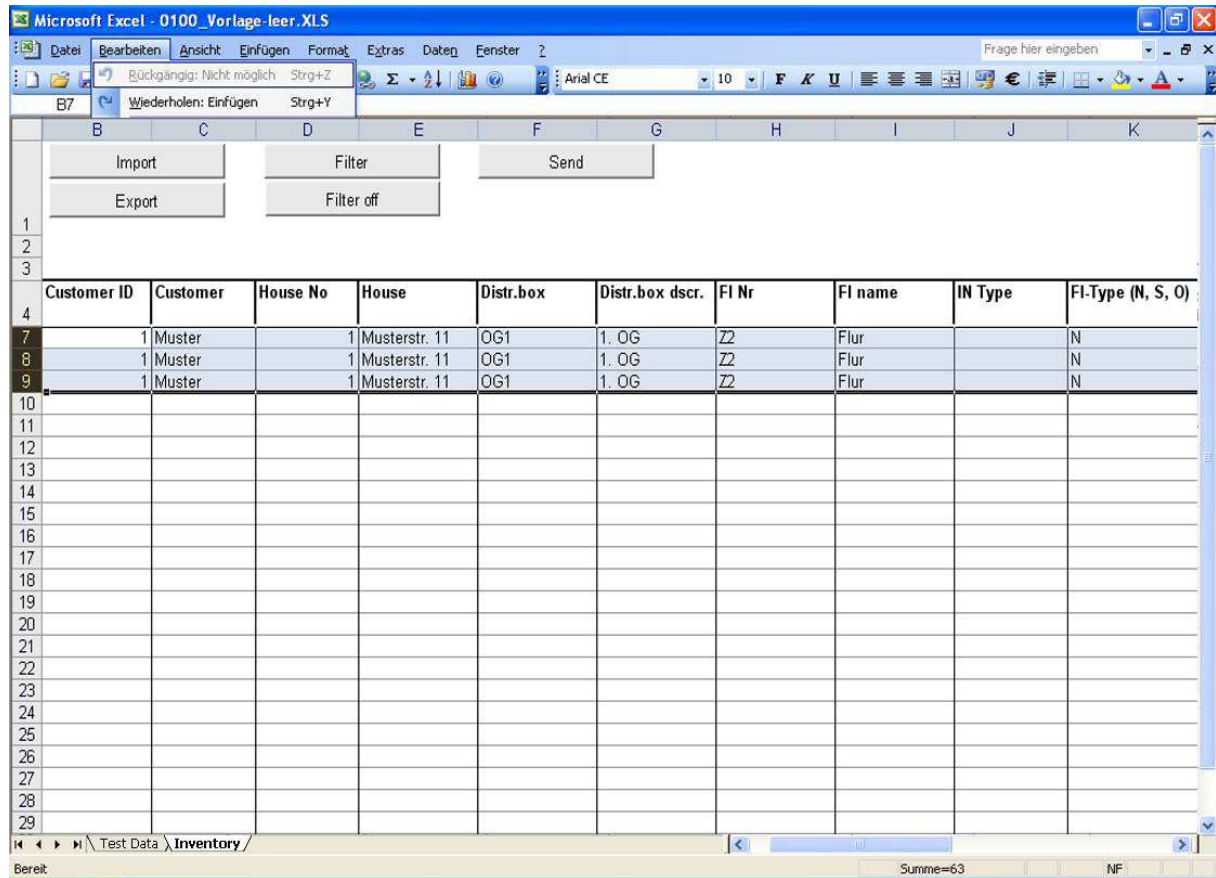
To send the inventory data for the first time, press a button 'Browse data sheet' in PCDOCW window and open the existing file named '0100_Vorlage-leer.XLS'.

After Excel windows opens, switch to the sheet 'Inventory'.

In the table you will find 3 sample circuits. You can modify the data as required.

To create more circuits you must select one or more rows containing circuit definitions and copy them using menu Edit/Copy. Then select a first empty row and paste copied rows using menu Edit/Paste. Then you can

modify data in new rows.



Save the file under a new name.

We recommend to close now the software.

Check if the testing device is switched on and connected properly to a PC. Start the program PC.doc-WORD/EXCEL. Be sure the correct COM port is selected.

Press a button 'Browse data sheet' in PCDOCW window and open your newly stored Excel file. Switch to the sheet 'Inventory'.

Select rows containing circuits' data you want to send to the testing device and press a button 'Send'.

Confirm the following message:



The inventory data is transferred to the testing device.

Wait for following message:



This way the inventory data is transmitted to your testing device and can be used for further measurements.

Important: Please perform the measurements according to this table, so they will be properly transferred to PC.doc WORD/EXCEL:

Structure tree in Profitest Master	Measurements	Stored in memory
House	none	none
Distribution box	none	none
RCD/FI	Settings: IdN, I F	each RCD/FI
Circuit	Settings: Riso, Rlo, ZL-N, ZL-PE,U,RE,	each Circuit

If more measurements are performed for a single circuit then the worst value is taken.

Appendix B Copyright Notice

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