

PC.doc-WORD-EXCEL Manual

(07/2008)

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GMC-I	GOSSEN METRAWATT	•
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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 WINDOWS 2000/XP
- MS WORD 97, 2000, 2003

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.

Programm Setup - PCD	OCW V3.0		×
Enter The Program	Directory:		
C:\Programme\PC	DOCW		
Customer No Company Department		<	
Name Street			
Postal Code			
City Telephone			
Fax			
Email Country (abbre∨)		 	
		Quit]

Installation menu - selecting the editor

Progra	m Setup - PCDOCW	V3.0	X		
		The Program Directory: <c:\programme\pcdocw\></c:\programme\pcdocw\>			
	Customer No	××			
	Company	×			
	Department	×			
	Name	×			
	Street	×			
	Postal Code	×			
	City	×			
	Telephone	×			
	Fax	×			
	Email	×			
	Country (abbrev)	x			
	Your ID number: 25DAAE02E8E5AD34 Enter the serial number (call the dealer or leave empty for DEMO):				
	Fax Form				
	Email Registrat	on <u>B</u> ack <u>O</u> K			

Installation menu: Entering the code number after registration

The installation program determines the BIOS number of your PC. Please write this together with your company address onto the FAX answer sheet and fax this to (+49) (0911)-5989220 in Germany. 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).

<u>Please fill in the first line containing your company name in the same way as you have written it onto your</u> registration fax.

Note: You may test the program before registering. Up to5 devices or circuits are supported in demo mode. After installation the program reports which modules have been purchased.

Program	n Setup 🛛 🔀
•	Program installed succesfully for: SECUTEST 0701/0702S PSI SECUTEST 0751 PSI SECUTEST 0601 PSI PROFITEST 0100S PSI PROFITEST 0100S PSI-T DDE access METRATEST5+PSION METRATEST5 Radio PROFITEST 204
	ОК

End of installation: Displaying the purchased program options

Note: The ID number is coupled to the BIOS code and therefore the program can be run on one PC only. Purchasing PCDOCW allows you to re-register later if you exchange the PC. Up to three registrations are supported for one user.

The program modules have the following meaning.

Option	Meaning				
0701/0702	Creating protocols with the SECUTEST 0701/0702S and/or the				
	SECUTEST-PSI Module.				
0751	Creating protocols with the SECUTEST 0751/601 and/or the				
	SECUTEST-PSI Module according to the standard DIN VDE 0751.				
601	Creating protocols with the SECUTEST 0751/601 and/or the				
	SECUTEST-PSI Module according to the standard IEC601 or EN				
	60601.				
0100	Creating protocols with the PROFITEST 0100S and PROFITEST-PSI				
	Module.				
0100T	Creating protocols with the PROFITEST 0100S and PROFITEST-PSI				
	Module.				
204	Creating protocols with the PROFITEST 204				
METRATESTER 5	Creating protocols with the METRATESTER 5 + PSION				

PCDOCW Installation options



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.

	CDOCW					
<u>E</u> ×it						
			×			
	File:	NEUWERT.	PS			
	Туре:	SECUTEST	07015			
	Selected items:	4				
	<u>O</u> pen da Read test Read Profi Read M <u>T</u> S Read M	ta file er <u>d</u> ata test <u>2</u> 04 5 Radio nitest		Comm Port:	COM1 COM2 COM3 COM4 COM5	
	Read p <u>r</u> ot	ocol file		Clear <u>m</u>	emory	
	Browse da	ta sheet		<u></u> lo:	se	
				PCDOCWV	6.0 [106] V6.0	

PCDOCW: Program window

The program PCDOCW program window appears on the screen. First select the COM interface to which your tester is connected (COM1 ... COM9).

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).

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,	Datei <u>n</u> ame:	Gossen-Metrawatt.ps		•	<u>S</u> peichern
	Datei <u>t</u> yp:	SECUTEST		•	Abbrechen

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 - Datentyp wählen	×
SECUTEST 0701S SECUTEST 0702S SECUTEST 0751 SECUTEST 601	<u>0</u> K
	<u>A</u> bbrechen

PCDOCW: Selecting the data format for SECUTEST 0751/601

- For tests according to differing regulations with the SECUTEST 0751/601, select what type of data you want to document.

S	elect gr	oups					×
	File: C:\Programme\PCDOCW.GB\SECUDEME.PS Type: SECUTEST 0701/0702S			PS			
	N.	Customer	ld-Nr	Dev.	Date	Result	
	1 2 3 4 5		0000 0001 0002 0003 0004		15.05.04 15.05.04 15.05.04 15.05.04 15.05.04	F OK OK F OK	
	2 0001 3 0002 4 0003 5 0004 Select <u>A</u> II Customer			<u></u> K	<u>C</u> ancel		

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	/	P
8	Connect PROFITEST 204, Press OK and start transmission on PROFITEST	
	(OK Abbrechen	-

- Select "OK". The machine data is stored.

PCDOCW: Reading PROFITEST 204 memory

In the menu "Save as" enter the filename for storing the raw memory data.

Se	elect g	roups					×	
	File: Type:	C:\Programme\P0 PROFITEST 204	CDOCW.GB\PROFI204	.P2				
	N.	Data record	Comment	Measurement	Time	Command	7	
	1	1	Maschine1	28.11.1999	14:30	1		
	2	2	Maschine2	30.11.1999	11:48	1		
	Se	elect <u>A</u> ll SelectTes	st			<u>OK</u> <u>C</u> ancel]	

PCDOCW: Selecting the PROFITEST 204 machine

Select the machine from the list box which you want to generate a protocol for. If you want to generate a protocol for the complete machine click onto "Select Test".

- For generating a protocol please refer to 4.3.

4.1.3 Reading of Data from the METRATESTER 5 RADIO

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

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	Datei <u>t</u> yp:	METRATESTER 5		•	Abbrechen

PCDOCW: METRATESTER 5 file input dialogue

- Enter the file name for storing the measurement results. **Note:** If the file name exists already, the data is appended to the file.

METRATESTER 5 Test-	software for the MIE	LE customer s	ervice		×
Dev.Adr.	Classification C I C II C IIT C IIT C IIT C IHeat <6kW C IHeat >6kW C Ext. cord	Ext. cord — L <= 15 D = 0,5	✓ m	Visual inspection Protective cond Housing Insulating parts Mains cord Markings Other Vis. inspect. OK	
Measurement Prot. cond. continuity Insulation resistance Equivalent leakage cur Probe current Differential current Functional test Test result	rent	Limit value max 0,3 Ohm min 0,5 max 7 mA max 0,5 mA max 3,5 mA	Resoult - - - - F	<u>C</u> ancel <u>E</u> nd Next Data	

PCDOCW: METRATESTER 5 - RADIO test

- Within the dialogue window "METRATESTER 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 METRATESTER 5 RADIO. For each test press the METRATESTER 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	Ι	II	I IT	II IT	I Heat	I Heat	Ext.
					<3kW	>3kW	Lead
RPE (Ohm)	<0,3	-	<u><0,3</u>		<0,3	<u><0,3</u>	<table< td=""></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	<0,25	<0,25	<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:	RPE AND	(RINS OR IDIFF)	RPE AND IP	IP AND IEL<>F	RPE AND ((If RINS	RPE AND ((If RINS	RPE AND
FTEST AND VIS AND:	(RINS OR IDIFF) AND RINS F AND IDIFF F AND IEL F AND IEL F AND	AND RINS F AND IDIFF F AND IP F	AND IEL~F AND IDIFF~F	AND IDIFF~F	=F then IEL) OR IDIFF) AND IEL<>F AND IP<>F	=F then IEL) OR IDIFF) AND IEL<>F AND IP<>F	(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.

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

Contents of the FRM template files

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Verlauf Verlauf Desktop Eigene Dateien Arbeitsplatz	0100e.fm 0113e.fm 0113e.fm 0113NE.frm 0701E-06.frm 0701E-12.frm 0701E-12F.frm 0701E-24.frm 0701E-24.frm 0702E-06.frm 0702E-12.frm 0702E-24.frm 0702E-24.frm 0702E-24.frm 0702E-24.frm 0702E-24.frm 0751E-06.frm 0751E-06F.frm	0751E-12.frm 0601LE-12.frm 0751E-12F.frm 0601LE-24.frm 0751E-24.frm 060335E-06.frm 061010E-12.frm 061010E-12.frm 061010E-12.frm 061010E-24.frm 061010E-24.frm 060335E-12F.frm 061010E-24.frm 060335E-12F.frm 061010E-24.frm 061010E-24.frm 060335E-12F.frm 061010E-24.frm 060335E-12F.frm 061010E-24.frm 060335E-24.frm 06010E-24.frm 06035E-24.frm 0601E-24.frm 0601 Typ: FRM-Datei 0950E-06F.frm 0950E-06F.frm 0601E-24.frm 0601E-24.frm 06050E-12.frm 0601E-24.frm 06050E-12.frm 0601E-24.frm 06050E-24.frm 0601E-24.frm 06050E-24.frm 05050E-06.frm 0601E-24.frm 06050E-24.frm 0950E-0.6F.frm 0601E-24.frm 0950E-0.6F.frm 0950E-0.6F.frm 0950E-0.6F.frm 0950E-0.6F.frm 0950E-0.6F.frm 0050E-12.frm 0050E-0.6F.frm 0050E-12.frm 0050E-12.frm 0050E-24.frm 0050E-24	
	Datei <u>n</u> ame:	Öffnen	
	Datei <u>t</u> yp:	Src. MS WORD Template Abbrech	en //

PCDOCW: Selecting the FRM template

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

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<mark>⊗</mark> Verlauf	SETFAX.RTF				
C Desktop					
Eigene Dateien					
Arbeitsplatz					
Netzwerkumgeb					
	Datei <u>n</u> ame:	TEST.RTF		•	<u>S</u> peichern
	Dateityp:	Dest. MS WORD Protocol		•	Abbrechen

PCDOCW: Selecting the protocol file

- Enter the destination file name.

PC.doc-win / PC.doc-med+204 Manual

🗃 TEST.RTF - Microsoft Word					_ = ×
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Seite 1 Ab 1 1/1 Bei 1,6 cm Ze 1	Sp 1 MAK ÄND ER	W ÜB Englisch (Gro		

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

VDE100 table	×
Circuit no.: 006	
Location: Lounge	
Cable	Insulation Resistance
Type: NYM	Rins [Ohm], U [V]: 99.9M , 500.
No of conductors: 2	
Diameter [mm²]: 1,5	-RCD (earth leakage)-Device
	In [A], Art, UL<[V]:/ ,
Overcurrent device	ldn [A], Uidn [V]: ,
Type/Characteristic: B(L) 5*IN(<0.2s)	ld [A], Uid [V]: ,
In [A]: 16	ta [s]:
Rloop [Ohm], lk [A]:	Mains
Ri [Ohm], lk [A]: ,	Un [V], fn [Hz]: ,
Auto-Check	<u>C</u> ancel <u>O</u> K

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 (mm ²)	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.

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Verlauf	図SETFAX.RTF 図test.RTF				
Desktop					
Eigene Dateien Constant Arbeitsplatz					
Netzwerkumgeb					
	Datei <u>n</u> ame:	test.RTF		•	Ö <u>f</u> fnen
	Dateityp:	Dest. MS WORD Protocol		▼	Abbrechen

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 oreder to change an existing template please proceed as follows:

- a) Close all applications.
- b) Open WORD for WINDOWS
- c) Click onto "Open File" and select the appropriate template from the PCDOCW directory (e. g. VDE0701.frm).
- d) Select the command button " \P " in order to display all characters in the form.
- e) Now change the form. Please change only texts and do not delete the control characters.
- f) 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.
- g) After saving the file close Word and tart 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.
- h) 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. Therefor 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.

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

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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

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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.

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	Customer	ID Number	Due		
Filter 3		•		•	
	Customer	IDNumber	Due		
	Filter = (Filter 1) AN	D (Filter 2) AND	(Filter 3)	Delete Calculate	
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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.

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Test Data Buttons

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"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.

Appendix B Copyright Notice

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