

# **User's Manual**

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General Devices	1										
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## DataTermD

Software V3.0.0

Wolfgang Warmbier GmbH & Co. KG Systeme gegen Elektrostatik Untere Gießwiesen 21 D-78247 Hilzingen

www.warmbier.com



## Overview

- The Data Terminal in combination with PGT120.COM collects ESD tests measurement data
- User identification with any USB HID input device (RFID, barcode, magnetic card, keyboard)
- Optional USB relay to trigger a turnstile
- Central data collecting and control server synchronizes measurement data and access control
- Open database interface for connecting customer systems





DataTermD is the service which runs on a server, called "Data Collector" in this example. DataTermC is the configuration program for this service with graphical user interface.

The service collects measurement data of the configured devices and distributes user data and access policies on top of the user- and measurement database.

The device communication can be established via secure HTTPS connection.

After installation and device configuration the software is ready to use and stores the data in an internal SQLite database. The customer can even select his own database if required. In this case the administration is the cutomer's duty. You can find the database definitions below in section Database connection and Database definition.

No.

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data.										_	
			Measure	ement Database						- 1	
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Device configuration	and st	tatus	Exit	Device configu 1 2 3 4 5 6 7 8 9 10 11	IP-Addu 192.168.55 192.168.55	ess / Hostna i. 122 i. 123	ame PGT1 PGT2	Alias	5	State Online Offine	
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Renner Ilona 1

Renner;Ilona Daniel;Steiner

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2015-01-14 15:40:35 2015-01-14 15:38:13

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Quick overview of the last 20 measurements

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## Software Installation

#### System requirements

PC, Server or Virtualisation with at least:

- Windows 7 (32- Bit / 64-bit)
- 100 MB free disk space
- Ethernet interface

Install the software by running **dataterm\_setup.exe**. The default destination is c:\dataterm. After installation the script **install\_service.bat** is executed, this registers and runs datatermd.exe as a Windows service.

The service is running in background and synchronizes measurement and user data to the configured devices.

#### **Optional:**

Alternatively you can run the service with parameter **--user**, **--run** and **--create** from the command-line. Parameter **--user** enables the user management

Parameter --run executes the program once. This can be used to run the program from within Windows Task planer instead of installing it as a service.

For external databases parameter **--create** helps to create the initial database skeleton during the first run.(Use this option only if you don't want to maintain the database tables by your own)

#### Example:

c:\dataterm\datatermd.exe --user --run --create

Error and status messages are logged to the file datatermd.log. For failure analysis you can run the program with option **--debug** from the command line to enable erbose logging.



#### Important:

Make sure the logged in user has write permission to the file **dataterm.cfg** in folder **data**. Otherwise the configuration settings can't be saved.



## **Database Connection**

Two different database connections must be established for measurements users. It is possible to use the same or different databases for it. In the following example we use the same database for measurement and user data.

#### Following database connections are possible:

### Default (no configuration required)

After installation the program uses the internal SQLite Database with common file for measurements and users.

Measurement database	SQLite:dbname=C:/dataterm/data/dataterm.db
User database	SQLite:dbname=C:/dataterm/data/dataterm.db
Username	<empty></empty>
Password	<empty></empty>

## MySQL

This establishes a connection to an external MySQL database. Name of the measurement and user database is **dataterm** in this example. The database is on the server

host.company.com	and listens on	Port 3306.
------------------	----------------	------------

Measurement database	mysql:database=dataterm;host=host.company.com;port=3306
User database	mysql:database=dataterm;host=host.company.com;port=3306
Username	<user></user>
Password	<password></password>

## MS-SQL(EXPRESS)

This establishes a connection to an external Microsoft SQL database. Name of the measurement and user database is **dataterm** in this example. The Microsoft SQL-Express Database is on the server **SERVERNAME** and listens on **Port 1433**.

Measurement database	<b>ODBC:</b> Driver={SQL Server};
	Server=SERVERNAME\SQLEXPRESS;Database=dataterm;port=1433
User database	ODBC:Driver={SQL Server};
	Server= SERVERNAME \SQLEXPRESS;Database=dataterm;port=1433
Username	<user></user>
Password	<password></password>

Systemdatenguellen

me Treiber

m SQL Serve

Benutzer-DSN System-DSN Datei-DSN Treiber Ablaufverfolgung Verbindungs-Pooling Info

#### Alternative with DSN:

This connection requires a 32 Bit ODBC system datasource. Use the 32 Bit ODBC-Administration from C:\Windows\SysWOW64\odbcad32.exe for configuration. Create a System-DNS with arbitrary name i.e. dataterm

in this example.

Messdatenbank	ODBC:DSN=dataterm							
Benutzer-datenbank	ODBC:DSN=dataterm			In einer ODBC-S	Systemdatenquel	le werden Informatio	onen darüber gespe	eichert,
Benutzername	<benutzer></benutzer>		81110	Systemdatenqu NT-Dienste zug	relle können alle f reifen.	Benutzer eines Com	puters und die	
Passwort	<passwort></passwort>							
					ОК	Abbrechen	Übernehmen	Hilfe

This procedure should also work with different databases with ODBC support.

Hinzufügen.

Entfernen

Konfigurieren..



## **Database Definition**

#### <u> Table - userdata</u>

			SQLite	MS-SQL	MySQL
id	Primary key		integer	bigint	bigint
access	Device identification	String - max. 30 characters	text	varchar(30)	varchar(30)
userid	User-ID	String - max. 30 characters (ASCII 32-127)	text	varchar(30)	varchar(30)
name	Name	String - max. 30 characters	text	varchar(30)	varchar(30)
fname	First name (optional)	String (together with "name" max. 30 characters)	text	varchar(30)	varchar(30)
profile	Measure profile		integer	bigint	bigint
print	Label print		integer	bigint	bigint

**ID:** Primary key of the table is not used further.

**ACCESS:** Access permissions: Comma separated list of allowed devices. The declaration of ranges is allowed i.e. (1,2,3-10)

**USERID:** Unique value for the user.

**NAME:** Text field to hold the name of the user, a user number or similar. If the name begins with \* the service-access is active (access even if measurement values are out of range)

**FNAME:** Is optional, can contain the first name or additional text. Internally it is combined together with the field NAME to field USERNAME. The maximum length together with field NAME is 30 characters.

**PROFILE:** 0 = OR (Arbitrary measurement)

- 2 = Wrist test mandatory
- 1 = Shoe test mandatory
- atory 3 = (AND) Shoe & Wrist test mandatory

**PRINT:** 0 = No label print for this user

1 = Print label for this user

Table - measdata

			SQLite	MS-SQL	MySQL
id	Primary key		integer	bigint	bigint
device	device identification	Positive number	integer	int	int
unixdate	Timestamp in Unix time	Positive number	integer	bigint	bigint
datetime	Date	YYYY-MM-TT HH:MM:SS	datetime	varchar(30)	datetime
rsg	Measurement value Footwear Series (kOhm)	Positive number	integer	int	int
rsl	Measurement value Left shoe (kOhm)	Positive number	integer	int	int
rsr	Measurement value Right shoe (kOhm)	Positive number	integer	int	int
rhg	Measurement value Wrist strap (kOhm)	Positive number	integer	int	int
erg	'OK' or failure code	String - max. 3 characters	text	varchar(3)	varchar(3)
msg	Message text of the terminal See Appendix A	String - max. 100 characters	text	varchar(10 0)	varchar(10 0)
userid	User-ID of the reader	String - max. 30 characters (ASCII 32-127)	text	varchar(30)	varchar(30)
tmp	Temperature at measurement	Floating decimal point	real	float	float
hum	Humidity at measurement	Floating decimal point	real	float	float
username	Concatenated username	String - max. 30 characters	text	varchar(30)	varchar(30)

**ID:** Primary key of the table is not used further.

DEVICE: number of the device

UNIXDATE ,DATETIME: Time- and date stamp of the measurement



**RSG,RSL,RSR,RHG:** Measurement data **ERG:** Result code of the measurement **MSG:** Normal writing of the result code

## **Userdata Maintenance & Measuremet View**

After the installation the free tool SQLiteStudio can be found in the program directory. This program can be used to edit the SQLite database. The table **userdata** contains the personnel data.

SQLiteStudio (v2.1.5)										-		
Databases Tables Indexes Triggers View	ws Window Tools Help	) 						~				
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🖃 📄 dataterm.db (SQLite 3)	Structure Data Indexes	Triggers DDL										
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	5 ///// 1 1415	07860 2014-11-10 09:24:20	0 0	0 0 40	Left shoe H	li-Fail; Right shoe H	li-Fail	658A9245	20.5 53.9	5	_	
	6 NULL 1 1415	07865 2014-11-10 09:24:25	0 0	0 0 40	Left shoe H	li-Fail; Right shoe H	li-Fail	658A9C11	20.5 53.9	5	_	
	7 NULL 1 1415	10898 2014-11-10 10:14:58	0 0	0 2748 OK	OK			658A9C11	22.6 47.	0 Willig Hubert		
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	11 NULL 2 1415	13933 2014-11-10 11:05:33	0 0	0 2917 OK	OK	61 69			878 B	1 871 E	2	
	12 NULL 2 1415	19109 2014-11-11 16:18:29	0 0	0 2659 OK	OK .				100.00 No.		<u> </u>	
	13 NULL 2 1415	19224 2014-11-11 16:20:24	0 0	0 2755 OK	OK 4		65909106	Freund Sasch		0	- L	
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	16 NULL 1 1415	84182 2014-11-12 10:23:02		0 3473 256	UserID	1 ///// 23	4042035996800	Steiner Daniel	0	1	- L	
	17 ///// 1 1415	84185 2014-11-12 10:23:05		0 2561 256	UserID	5 NULL 2.3	2242035996813	Nötia Ulrich	1	0	- L	
		93554 2014-11-12 13:00:54	0 0	0 2325 UK		NULL 23	2142035996823	Messmer Balf	1	0	- L	
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	20 ////// 2 1415	04655 2014-11-12 16:04:15		U 2293 UK		3 NULL 1-3	4642035936827	Renner Klaus	2	0		_
					9	A NULL NULL	NULL	NULL NULL	NULL NI	1122		
								100 C				
											100	

#### Views can be used for SQL-queries i.e.:

- Show all users who have tested today
- Show all users who have tested successfully today
- Show all users who have not tested successfully today



## Importing user data

1. Create a CSV file with the columns id, access, userid, name, fname as illustrated.

🧾 us	er_export.csv	- Editor			_		×	
<u>D</u> atei	<u>B</u> earbeiten	F <u>o</u> rmat	<u>A</u> nsicht	2				
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,"2,3	3",404203	5996800	,*Danie	el,St	eine	r,0,1		
,"2,3	3",224203	5996813	,Nötig,	Ulri	ich,1	,0		
,1-3,	21420359	96823,M	lessmer,	Ralf	F,1,0			
,1-3,	46420359	36822,R	lenner,1	lona	1,2,0			
								4
<							>	

2. Open the context menu by right mouse click to **userdata** table and select "**Erase table data**" to delete all records.

3. To import the CSV file select "Import data to table" in the same context menu.

🖉 SQLiteStudio (v2.1.5)			- 🗆 🗙
Databases Tables Indexes Triggers View	vs Window Tools Help		
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8	III measdata (dataterm.db)		
🖃 🔤 dataterm.db (SQLite 3)	Structure Data Indexes Triggers DDL		
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successfully_tested_today	3 ///// 2 1415605645 2014-11-10 CSV  Configure C:/dataterm/tmp/user Browse 80	300 21.8 58.5	
	4 NULL 1 1415607855 2014-11-10	20.5 53.5	
	5 ///// 1 1415607860 2014-11-10 Import to:	20.5 53.5	
	6 NULL 1 1415607865 2014-11-10 Database	20.5 53.5	
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	17 ///// 1 1415/94165 2014-11-12 10:23:05 0 0 0 2561 256 0sen0	n 1 0	
	18 ///// 2 1 1415/93854 2014111210:0017 0 0 0 2325 0K 0K 6 ///// 2.3 2142035996823 Messmer Balf	1 0	
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🔲 measdata (datate			



## Data evaluation with MS-Excel

Prior to access the database with MS-Excel you've to install the ODBC driver sqliteodbc.exe. The file is located within the installation path in the subdirectory addon.

Use the ODBC-Database administration C:\Windows\SysWOW64\odbcad32.exe to configure a User-DNS with the path to the database as illustrated below.

Benutzersdam       Verbindungs-Pocking         Benutzersdam       Benutzersdam         Harm tender       Benutzersdam         Benutzersdam       Benutzersdam	ODBC-Datenquellen-Administrator	
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Except viewer       Data Source Name:       dataterm         Data Source Name:       dataterm       Browse         Data Source Name:       C/dataterm/data/dataterm.db       Browse         Dock Timeout (ms):       Shot Column Names       Corport         Bestorderrighter weinern Daterpoorder Indegestelt wird       Browse       Don't Create Database         OK       Abbrochen       Demoter Viewerder Weiner       Hile         Deen the Excel file dataterm_excel_demo_2018.xisx       Subdirectory addon and adjust the connection string         weindangsgen:       Detendentarge weiner       Detendentarge weiner         Verbindungsdes:       Detendentarge weiner       Detendentarge weiner         Verbindungsdes:       Detendentarge weiner       Detendentarge weiner         Detendentarge weiner       Verbindungsdes:       Detendentarge weiner         Detendentarge weiner       Data -> Connection properties.       Statesterm         Statesterm       Statesterm       Statesterm       Statesterm         Statesterm       Statest	dataterm SQLite3 ODBC Driver Entfernen	Enter options for connect
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OK       Abbrechen       Opernetimen       Hite         Load Extensions:       UK       Cancel         Ok       Cancel       Concel         Obern the Excel file dataterm_excel_demo_2018.xlsx       Verbindungseigenschaften         Subdirectory addon and adjust the connection string       Verbindungstype:       Datenbankabrage         Verbindungsdete:       Otherwendung       Otherwendung         Verbindungsdete:       Streaderterm.dete       Otherwendung         Verbindungsdete:       Streaderterm.dete <td< td=""><td>auf dem aktuellen Computer verwendet werden.</td><td>Always BIGINT   No WUHAH</td></td<>	auf dem aktuellen Computer verwendet werden.	Always BIGINT   No WUHAH
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Verbindungszeichenfolge:       Verbindungszeichenfolge:       OSN=dataterm_sqlite;Database=gl\dataterm\data \\dataterm_dB;StepAPI=0;SyncPragma=NORMAL;NoTXN= 0;Timeout=1000;ShortNames=0;LongNames-0;NoCCHAE= 0;NoWCHAR=0;FKSupport=0;JournalMode=;OEMCP=         Befehlstyp:       SQL         Befehlstyp:	the database with Data -> Connection properties.	Verbindungsdatei:
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0;Timeout=1000;ShortNames=0;LongNames=0;NoCreat=         0;NWCHAR=0;FKSupport=0;JournalMode=;OEMCP=         Image: SQL         Befehistyp:		Verbindungszeichenfolge: DSN=dataterm_sqlite;Database=c:\dataterm\data \dataterm.db;StepAPI=0;SyncPragma=NORMAL;NoTXN=
Befehlstyp:       SQL         Befehlstyp:       SELECT measdata_0.datetime, measdata_0.userid, measdata_0.userid, measdata_0.userid, measdata_0.userid, measdata_0.userid, measdata_0.userid, measdata_0.rsg, measd		0;1imeout=1000;5hortNames=0;LongNames=0;NoCreat= 0;NoWCHAR=0;FKSupport=0;JournalMode=;OEMCP=
Befehlstyp:       SQL         Befehlstyp:       SELECT measdata_0.datetime, measdata_0.userid, measdata_0.userid, measdata_0.erg, measdata_0.rsg, m		Kennwort speichern
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1	datetime	device	userid	username	erg	msg	rsg	rsl	rsr	rhg	tmp	hum
2	2018-02-10 11:33:12	1	420068A1D1	Pfeifle Rainer	32	Right shoe Hi-Fail	0	25683	0	2470	25,4	30,5
3	2018-02-10 11:32:45	2	420068A1D1	Pfeifle Rainer	8	Left shoe Hi-Fail	0	0	29030	2379	24,7	35,5
4	2018-02-10 11:30:51	1	420068A1D1	Pfeifle Rainer	ОК	ОК	0	26737	29461	2479	25,4	30,5
5	2018-02-10 11:30:44	1	420068A1D1	Pfeifle Rainer	2048	Wrong Measurement	0	0	0	2383	25,4	30,5
6	2018-02-10 11:30:34	1	420068A1D1	Pfeifle Rainer	2050	Wrist/Smock Hi-Fail; Wrong Measurement	0	0	0	0	25,4	30,5
7	2018-02-10 11:30:32	2	420068A1D1	Pfeifle Rainer	ОК	ОК	0	25099	27084	2628	24,7	35,5
8	2018-02-10 11:30:25	1	3D0094593E	Speicher Jürgen	OK	OK	0	0	0	2540	25,4	30,5
9	2018-02-10 11:30:22	2	420068A1D1	Pfeifle Rainer	2048	Wrong Measurement	0	0	0	2591	24,7	35,5
10	2018-02-10 11:29:59	1	658A9C11	*Willig Hubert	1026	Wrist/Smock Hi-Fail; Service access	0	0	0	0	25,4	30,5
11	2018-02-10 11:29:18	2	658A9C11	*Willig Hubert	1026	Wrist/Smock Hi-Fail; Service access	0	0	0	0	24,7	35,5
12	2018-02-10 11:25:33	1	420068A1D1	Pfeifle Rainer	ОК	ОК	0	31262	32514	2566	25,3	30,5
13	2018-02-10 11:25:09	1	3D0094563C	Steiner Gerhard	OK	ОК	0	28797	33506	2552	25,4	30,5



## Appendix A

### Table measdata, field msg - Message text of the terminal

By default this is the text received from the terminal.

However it is possible to customize the messages.

Rename the English template file "data/messages.cfg.en.template" to "data/messages.cfg" and edit the content accordingly if desired.