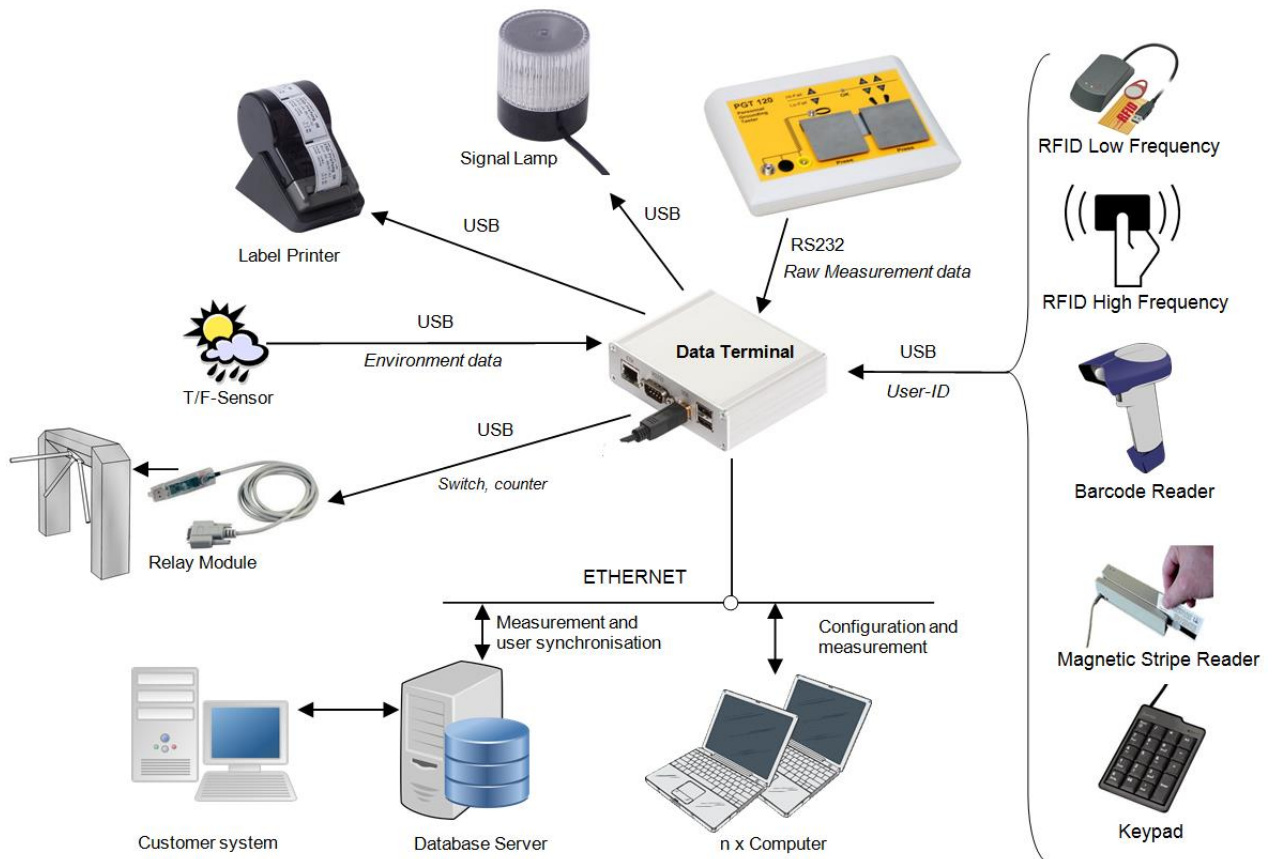


# User's Manual



## Data Terminal 2 PGT120.COM.DT Software V 2.1.2

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

[www.warmbier.com](http://www.warmbier.com)

# Table of contents

- INTRODUCTION.....3**
  
- PACKAGE CONTENT .....3**
  
- INSTALLATION .....3**
  - Checks.....3
  - Overview.....4
  - Optional Extensions.....5
  - Installation.....7
  - Getting Started.....7
  
- OPTIONAL SETTINGS:.....7**
  
- OPERATION .....8**
  - Manual IP-Address Configuration.....10
  - Extended Configuration .....11
  - Firmware Update .....12
  
- DATA EXPORT INTERFACE.....13**
  - Interface 1 - RAW .....13
  - Interface 2 - CSV .....14
  - Interface 3 - DatatermD .....15
  
- TECHNICAL DATA .....16**
  
- CONSUMABLES.....16**
  
- WASTE DISPOSAL.....16**

## Introduction

The "Data Terminal 2", is a modular system for recording and processing Personnel Grounding Tester's test data. A basic system consists of:  
PGT120.COM (1) and Data Terminal (2).

Test data can be stored for one month inside the device. The data can be retrieved by a web browser from any computer when connected to a network.

Test data can be imported to Time Attendance or Access Control systems via network interface.

The user identification can be made with many USB HID input devices (RFID, barcode, magnetic card, keyboard)

Multiple devices can be networked together and managed by one server component. Userdata and measurement data can be managed central.

An open user- and measurement data interface allows end-user customization

### **Remote PC functions when connected to network:**

- List of test data with coloured marking of failed tests
- Printed test results list
- WEB-interface for easy configuration
- German and English support

## Package Content

- Data Terminal Part No: 7100.PGT120.COM.DT
- Power supply
- User's manual (German/English)

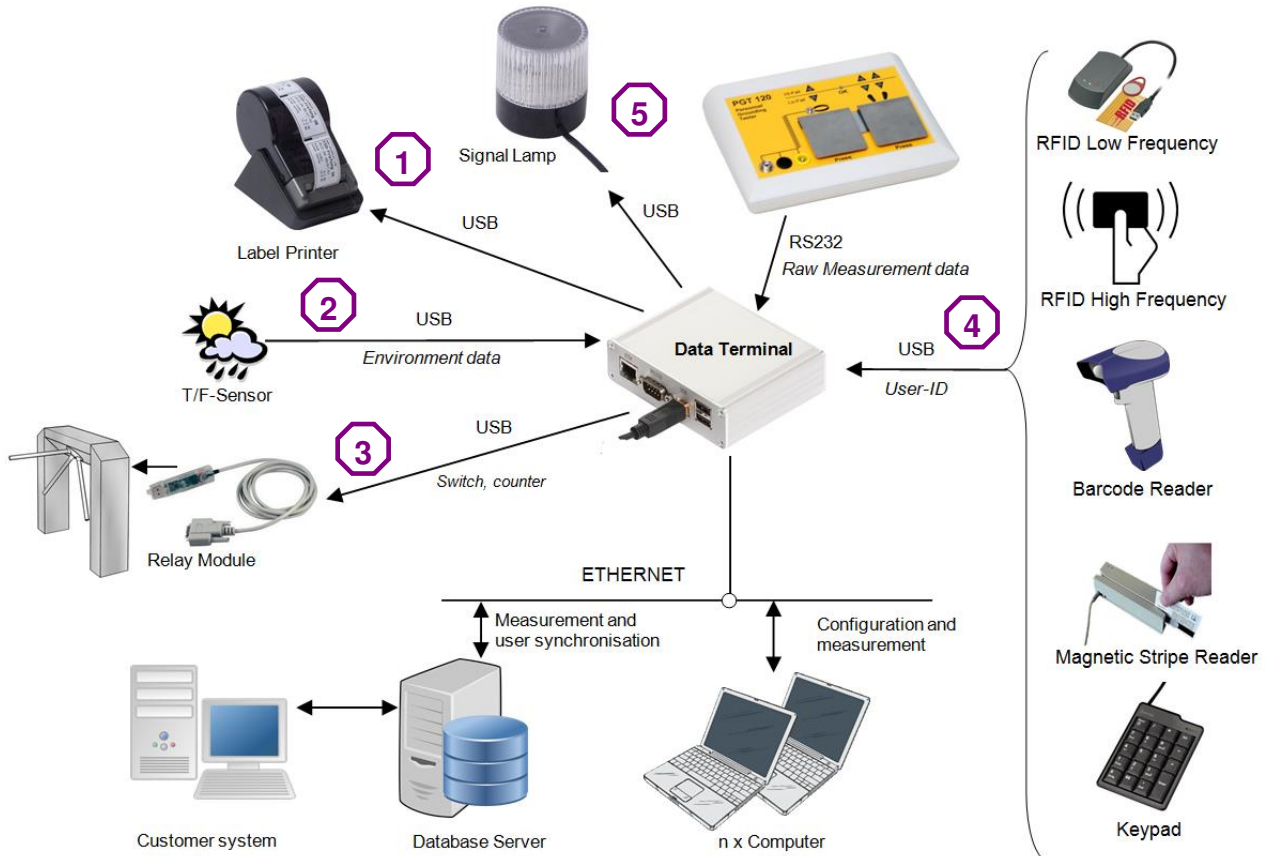
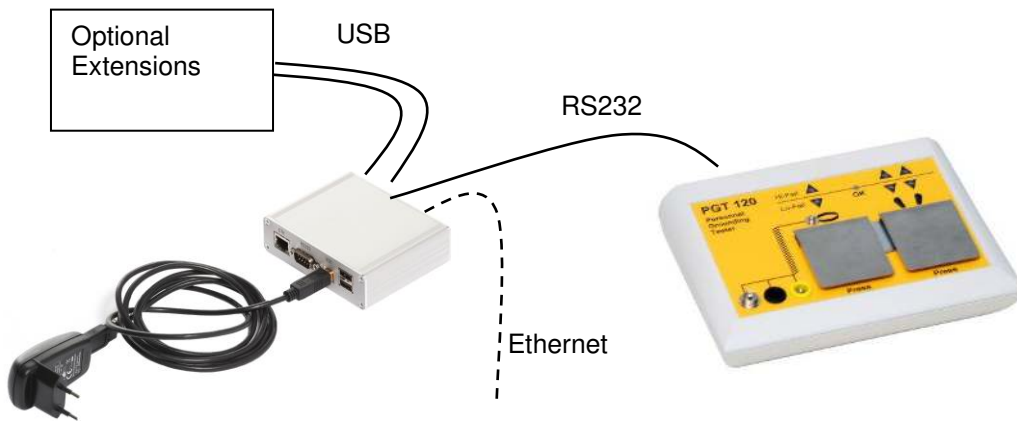
**Note:** A Personnel Grounding Tester PGT120.COM (1) (Part No. 7100.PGT120.COM) is required for operation.

## Installation

### ■ Checks

- Check the package content and make sure that no parts have been damaged during transportation
- Compare the information on the instrument label with the information on the delivery note
- Check that the voltage printed on the power supply complies with your local mains voltage  
*Please contact us if you have any problems or any questions.*

■ **Overview**




## Optional Extensions

### Label Printer (1)

Label printing for passed tests with test results and measurement values.

Manufacturer	Seiko Instruments GmbH
Type	SLP450 / SLP650
BUS	USB 2.0
BUS-ID	0619:0502 / 0619:0126
Part No.	<b>7100.PGT120.COM.D.2</b>



```

15E8716D
ESD test passed
2012-09-25/13:09 26.1°C
                    53.0%
Shoe left  132.0 kΩ
Shoe right 131.0 kΩ
Wrist strap 2.9 MΩ
    
```

### T/H-Sensor (2)

The current temperature and the relative humidity is recorded if the T/H-Sensor is connected.

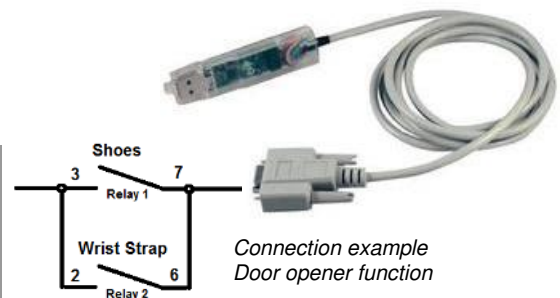
Manufacturer	Lascar Electronics Ltd.
Type	EL-USB-RT
BUS	USB 1.1 (50 mA)
BUS-ID	1781:0EC4
Part No.	<b>7100.PGT120.TEST.10</b>



### Relay Module (3)

The relay module provides two different output channels.  
Output 1: One second trigger for passed shoe test.  
Output 2: One second trigger for passed wrist strap test.  
Contact ratings: 0,3A at 30V AC / 1A at 24V DC

Manufacturer	Deditec GmbH
Type	USB-Mini-REL2
BUS	USB 2.0 / USB 1.1 (100mA)
BUS-ID	0403:6001
Part No.	<b>100.PGT120.TEST.12</b>



### Beacon (Visual Signal Indicator) (5)

Red / green / yellow - visual indication of the access clearance

Manufacturer	Delcom Products Inc.
Type	USB HID Visual Signal Indicator RGY 904007 (Gen II)
BUS	USB 2.0 / USB 1.1 (100mA)
BUS-ID	0FC5:B080
Part No.	<b>7100.PGT120.TEST.13</b>



**Input Device (4)**

The User-ID is queried if a valid input device was connected. Possible input devices are: RFID-readers, Barcode scanners, Magnetic stripe readers and Keypads.

Valid input devices are devices which identify themselves on the USB-Bus as Human Interface Device (HID). Only one HID-Device can be connected at the same time. The maximum provided power for the device is 500mA. The expiration time for the User-ID is 10 seconds.



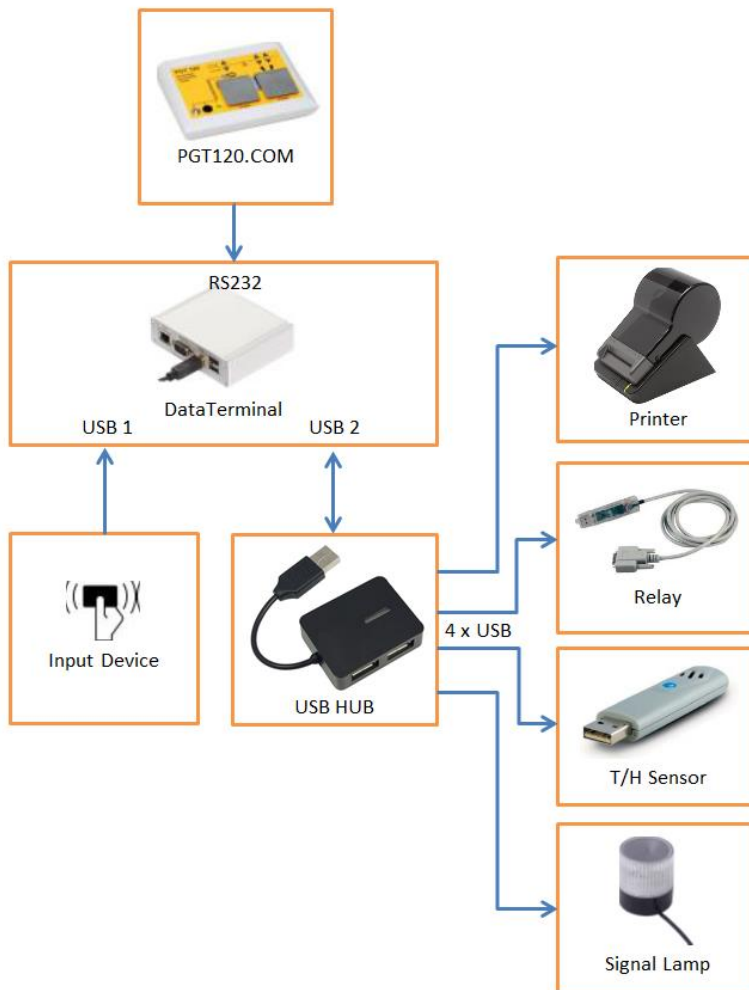
**USB-HUB (passive)**

To connect multiple optional extensions, a USB-HUB with USB 2.0 / USB 1.1 specification is required. To connect the within this document listed devices a passive HUB (without additional power supply) is sufficient.

Manufacturer	LogiLink
Type	UA0139
BUS	USB2.0 / USB1.1
BUS-ID	A140:0101
Part No.	<b>7100.PGT120.TEST.16</b>



**Interface Connection Example:**



## ■ Installation

Connect the PGT120.COM serial interface to the RS232 socket.  
Two USB ports are available on the Data Terminal. Connect the Input device directly to one USB port.  
Connect the optional extensions to the second USB port. For multiple extensions use a USB-HUB as distributor.

If desired, connect the Ethernet cable to ETH.  
Connect the power supply to the Data Terminal.



**Use only the original power supply.**  
**Rebooting is required to activate new connected USB devices.**

## ■ Getting Started

The terminal is ready within 50 seconds after plugging-in the power supply. If the Ethernet cable is connected, the device tries to configure its network by DHCP. Therefore a DHCP-server should be available within the network. A label indicating the assigned IP Address will be printed on system start-up if the label printer is connected. The IP-Address is displayed on the LCD if connected.

System clock can be set by DHCP as well (042 timeserver).

The configured DHCP hostname will be sent to the DHCP server if available.

If DHCP configuration fails the default IP-Address **192.168.1.1** will be used.

It is possible to enter a different IP-Address manually. However this is not recommended because the device has no reset capability and would not be accessible any more in case of false configuration. Read section "*Manual IP-Address Configuration*" for this. Alternatively you could prefix a router with required functionality. Entering a fixed IP-Address will deactivate DHCP.

To configure the Data Terminal enter the assigned IP-Address into your browser's URL-filed.

The first access opens the configuration page without asking for a password.  
Adjust and save the settings to continue.

### **Important settings:**

- The Terminal's **time zone**, **date** and **time** must first be set in System settings.
- Measurement data - "**footwear in series**" must be set according to the connected PGT120.COM DIP-switches.

After saving the settings you find the two optional sections Network and Advanced in the Configuration menu.

### **Optional settings:**

- If desired you can configure a fixed IP-Address in section Network.
- Settings for User data synchronization are available in section Advanced.

# Operation

## Configuration

Administration password is required for configuration. The default login is User: **admin** Password: **admin**. The user can change the password.

## System settings

- Company name or independent text. This will be printed on the first line of each label. The user ID can be printed instead, if user identification is enabled and this field is blank.
- WEB-interface language
- Set the date
- Set the time
- Select current time zone
- Print assigned IP-Address after each system start-up
- Reboot the terminal
- Change the configuration password
- System reset (measurement data and settings will be erased)
- Firmware upload
- DHCP hostname configuration

## Measurement data

- Select amount of records to be viewed in measurement data view
- Footwear in series (this must correspond to the DIP-switch setting of the PGT120.COM)
- Enable or disable coloured marking of failed test
- Download measurement data as CSV file
- Clear all measurement data

## Label printer

- Enable or disable the Label printer. Select "ID<99" to print the label only if the entered user ID has less than three characters.
- Printer and paper selection
- Configure printing system
- Delete pending print jobs

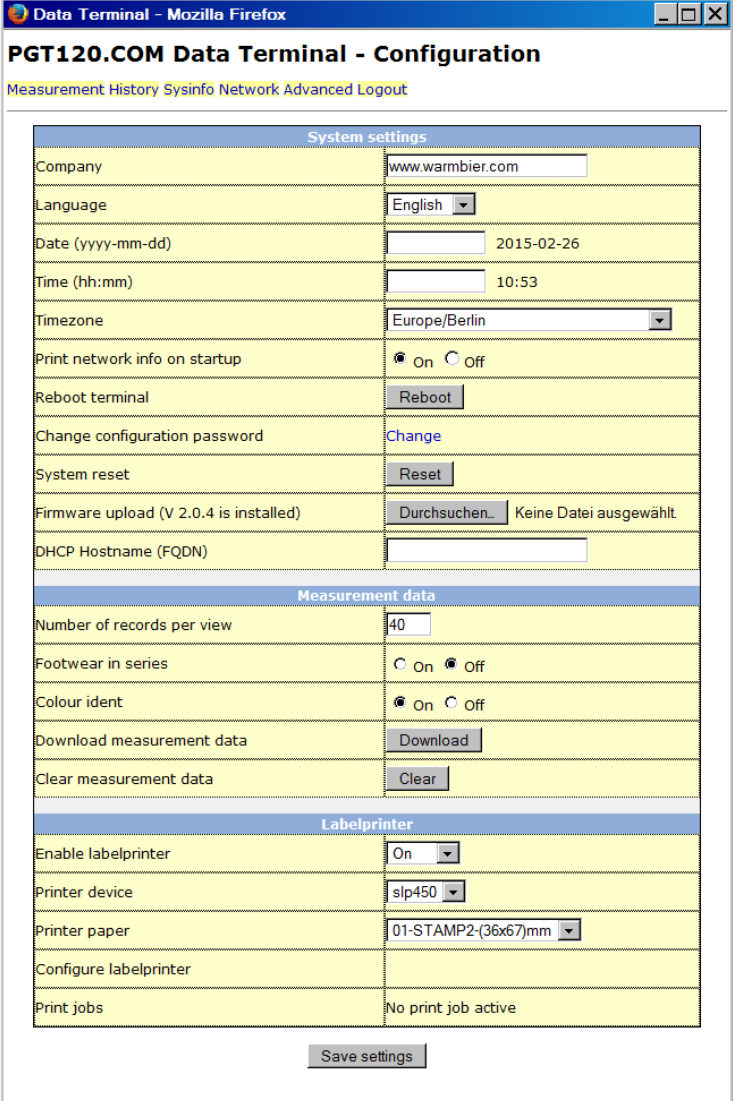
## Test data

Test data view is the main entry page. A configurable number of records are displayed, including test data, date, time and test result. Measurement data view is updated every 20 seconds.

The current temperature and the relative humidity is recorded if the **T/H-Sensor (2)** is connected.

If the **Input Device (4)** is connected, the ID shows up and measurements without ID will be invalid.

If the ID is linked to a username, then the username is displayed instead.



**System settings**

Company	www.warmbier.com
Language	English
Date (yyyy-mm-dd)	2015-02-26
Time (hh:mm)	10:53
Timezone	Europe/Berlin
Print network info on startup	<input checked="" type="radio"/> On <input type="radio"/> Off
Reboot terminal	Reboot
Change configuration password	Change
System reset	Reset
Firmware upload (V 2.0.4 is installed)	Durchsuchen... Keine Datei ausgewählt
DHCP Hostname (FQDN)	

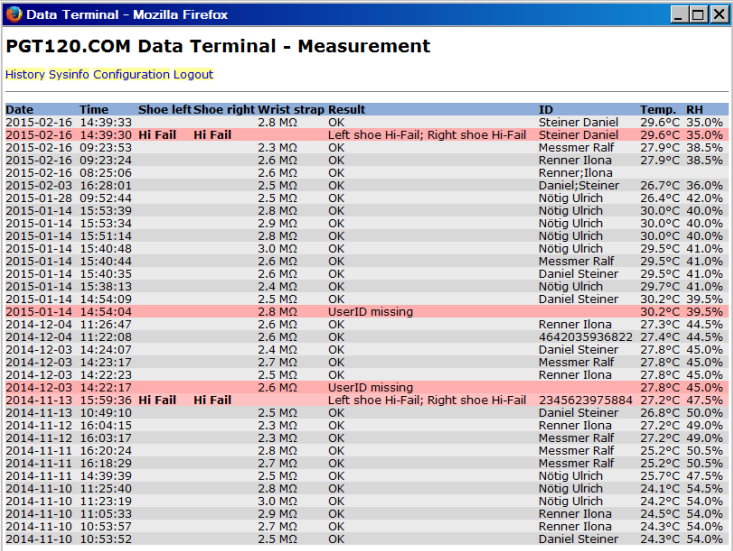
**Measurement data**

Number of records per view	40
Footwear in series	<input type="radio"/> On <input checked="" type="radio"/> Off
Colour ident	<input checked="" type="radio"/> On <input type="radio"/> Off
Download measurement data	Download
Clear measurement data	Clear

**Labelprinter**

Enable labelprinter	On
Printer device	slp450
Printer paper	01-STAMP2-(36x67)mm
Configure labelprinter	
Print jobs	No print job active

Save settings



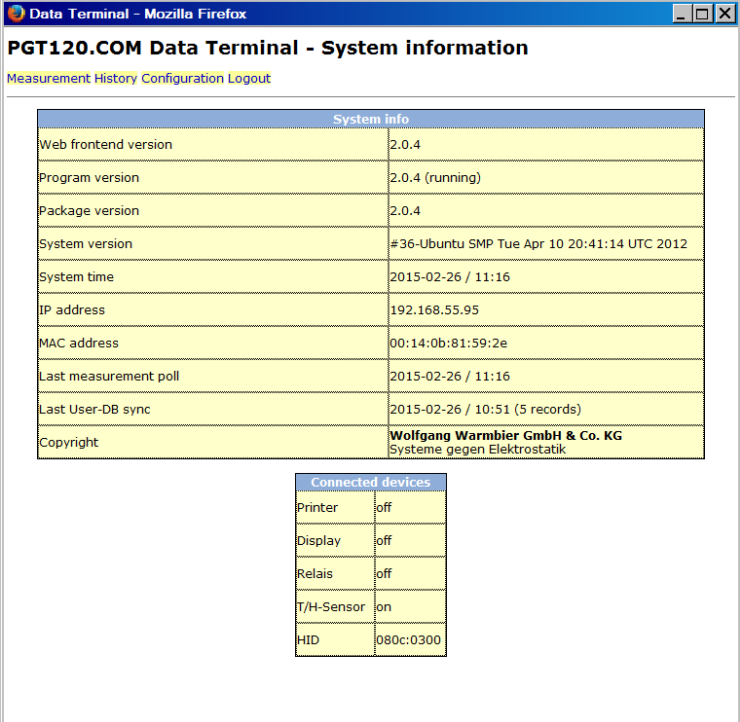
**PGT120.COM Data Terminal - Measurement**

Date	Time	Shoe	left Shoe	right	Wrist strap	Result	ID	Temp.	RH
2015-02-16	14:39:33					2.9 MΩ OK	Steiner Daniel	29.6°C	35.0%
2015-02-16	14:39:30	Hi Fail	Hi Fail			Left shoe Hi-Fail; Right shoe Hi-Fail	Steiner Daniel	29.6°C	35.0%
2015-02-16	09:23:53					2.3 MΩ OK	Messmer Ralf	27.9°C	38.5%
2015-02-16	09:23:24					2.6 MΩ OK	Renner Ilona	27.9°C	38.5%
2015-02-16	08:25:06					2.6 MΩ OK	Renner Ilona		
2015-02-03	16:08:01					2.5 MΩ OK	DanielSteiner	30.0°C	40.0%
2015-01-28	09:52:44					2.5 MΩ OK	Nötig Ulrich	26.4°C	42.0%
2015-01-14	15:53:39					2.8 MΩ OK	Nötig Ulrich	30.0°C	40.0%
2015-01-14	15:53:34					2.9 MΩ OK	Nötig Ulrich	30.0°C	40.0%
2015-01-14	15:51:14					2.8 MΩ OK	Nötig Ulrich	30.0°C	40.0%
2015-01-14	15:40:48					3.0 MΩ OK	Nötig Ulrich	29.5°C	41.0%
2015-01-14	15:40:44					2.6 MΩ OK	Messmer Ralf	29.5°C	41.0%
2015-01-14	15:40:35					2.6 MΩ OK	Daniel Steiner	29.5°C	41.0%
2015-01-14	15:38:13					2.4 MΩ OK	Nötig Ulrich	29.7°C	41.0%
2015-01-14	14:54:09					2.5 MΩ OK	Daniel Steiner	30.2°C	39.5%
2015-01-14	14:54:04					2.8 MΩ UserID missing	Daniel Steiner	30.2°C	39.5%
2014-12-04	11:26:47					2.6 MΩ OK	Renner Ilona	27.3°C	44.5%
2014-12-04	11:22:08					2.6 MΩ OK	4642035936822	27.4°C	44.5%
2014-12-03	14:24:07					2.4 MΩ OK	Daniel Steiner	27.8°C	45.0%
2014-12-03	14:23:17					2.7 MΩ OK	Messmer Ralf	27.8°C	45.0%
2014-12-03	14:22:23					2.5 MΩ OK	Renner Ilona	27.8°C	45.0%
2014-12-03	14:22:17					2.6 MΩ UserID missing	Renner Ilona	27.8°C	45.0%
2014-11-13	15:59:36	Hi Fail	Hi Fail			Left shoe Hi-Fail; Right shoe Hi-Fail	2345623975884	27.2°C	47.5%
2014-11-13	10:49:10					2.5 MΩ OK	Daniel Steiner	26.8°C	50.0%
2014-11-12	16:04:15					2.3 MΩ OK	Renner Ilona	27.2°C	49.0%
2014-11-12	16:03:17					2.3 MΩ OK	Messmer Ralf	27.2°C	49.0%
2014-11-11	16:20:24					2.8 MΩ OK	Messmer Ralf	25.2°C	50.5%
2014-11-11	16:18:29					2.7 MΩ OK	Messmer Ralf	25.2°C	50.5%
2014-11-11	14:39:39					2.5 MΩ OK	Nötig Ulrich	25.7°C	47.5%
2014-11-10	11:25:40					2.8 MΩ OK	Nötig Ulrich	24.1°C	54.5%
2014-11-10	11:23:19					3.0 MΩ OK	Nötig Ulrich	24.2°C	54.0%
2014-11-10	11:05:33					2.9 MΩ OK	Renner Ilona	24.5°C	54.0%
2014-11-10	10:53:57					2.7 MΩ OK	Renner Ilona	24.3°C	54.0%
2014-11-10	10:53:52					2.5 MΩ OK	Daniel Steiner	24.3°C	54.0%



## System Info

- Display of software versions
- System time
- Device's IP and MAC-address
- Last measurement poll-time
- Last sync of user data and amount of records
- Connected USB devices and, if available their USB-ID



**PGT120.COM Data Terminal - System information**  
 Measurement History Configuration Logout

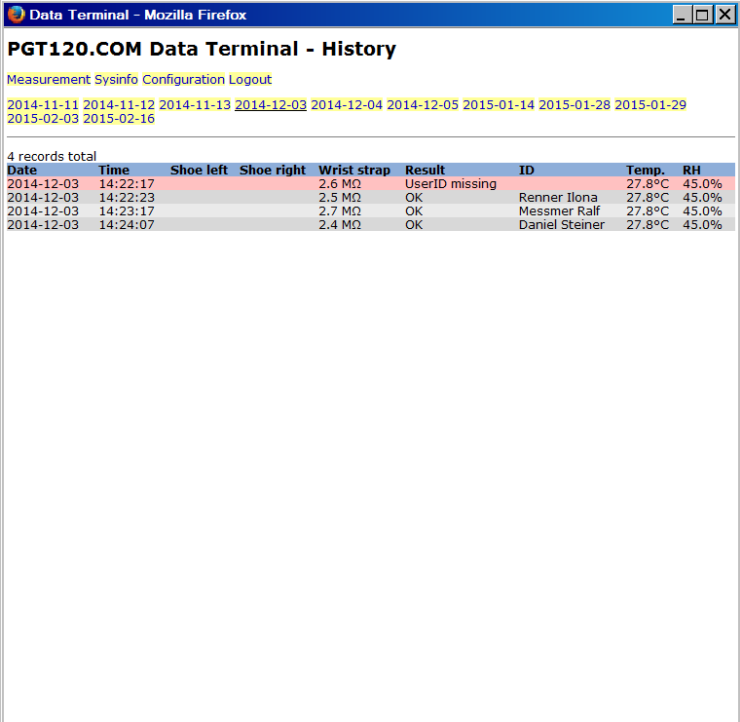
System info	
Web frontend version	2.0.4
Program version	2.0.4 (running)
Package version	2.0.4
System version	#36-Ubuntu SMP Tue Apr 10 20:41:14 UTC 2012
System time	2015-02-26 / 11:16
IP address	192.168.55.95
MAC address	00:14:0b:81:59:2e
Last measurement poll	2015-02-26 / 11:16
Last User-DB sync	2015-02-26 / 10:51 (5 records)
Copyright	<b>Wolfgang Warmbier GmbH &amp; Co. KG</b> Systeme gegen Elektrostatik

Connected devices	
Printer	off
Display	off
Relais	off
T/H-Sensor	on
HID	080c:0300

## History

One month's test data storage is separated for each day. Use the browser's printing function to print.



**PGT120.COM Data Terminal - History**  
 Measurement Sysinfo Configuration Logout

2014-11-11 2014-11-12 2014-11-13 2014-12-03 2014-12-04 2014-12-05 2015-01-14 2015-01-28 2015-01-29  
 2015-02-03 2015-02-16

4 records total

Date	Time	Shoe left	Shoe right	Wrist strap	Result	ID	Temp.	RH
2014-12-03	14:22:17			2.6 MΩ	UserID missing		27.8°C	45.0%
2014-12-03	14:22:23			2.5 MΩ	OK	Renner Ilona	27.8°C	45.0%
2014-12-03	14:23:17			2.7 MΩ	OK	Messmer Ralf	27.8°C	45.0%
2014-12-03	14:24:07			2.4 MΩ	OK	Daniel Steiner	27.8°C	45.0%

## ■ Manual IP-Address Configuration

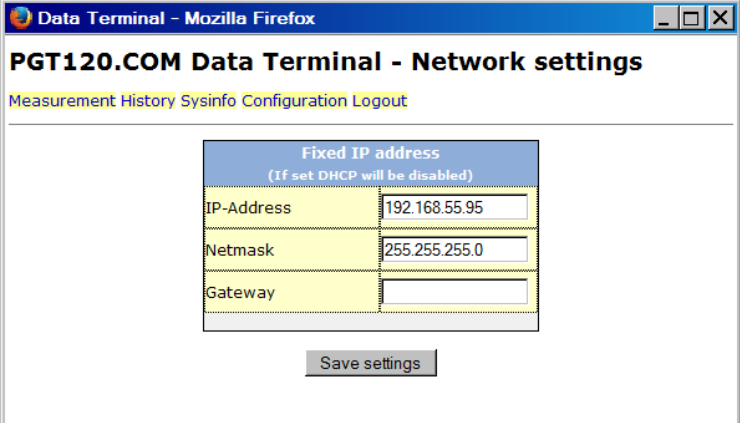
Open **Sysinfo** to make sure the installed package version is at **least version 0.4.6**.  
Use **Configuration -> Firmware Upload** to install the latest Firmware.

Make sure you have an arbitrary USB memory stick (Mass Storage Device) ready to use. This is required to reactivate default settings in case of misconfiguration.



**Do not proceed unless the above requirements are fulfilled!**

1. Log into the configuration page with your username and password.
2. Select **Configuration -> Network**.
3. Enter the desired IP-Address and associated Netmask carefully.
4. If required, a gateway address can be defined.
5. Save the settings and reboot the device with **Configuration -> Reboot**.



The screenshot shows a web browser window titled "Data Terminal - Mozilla Firefox" displaying the "PGT120.COM Data Terminal - Network settings" page. The page has a navigation menu with "Measurement", "History", "Sysinfo", "Configuration", and "Logout". The main content area is titled "Fixed IP address (If set DHCP will be disabled)" and contains a form with three input fields: "IP-Address" (192.168.55.95), "Netmask" (255.255.255.0), and "Gateway" (empty). A "Save settings" button is located below the form.

## Recovery

**If you've entered an incorrect IP-Address, the device is not accessible within the network any more.**

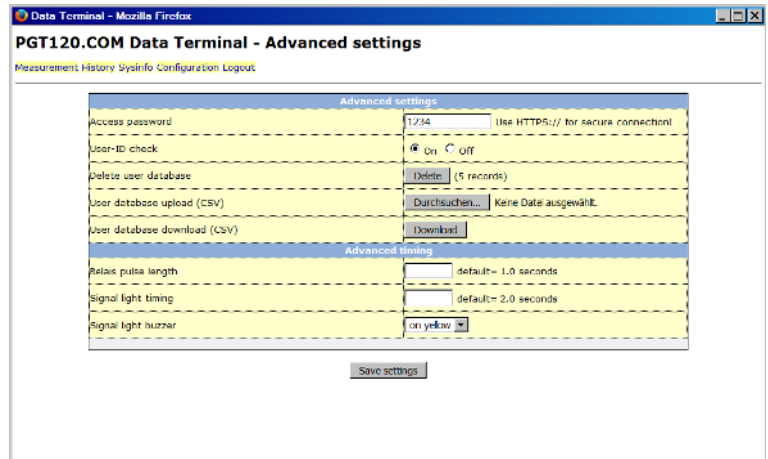
To rectify the faulty settings you've to connect a USB memory stick and reboot the device. With connected memory stick the device will boot with default network settings according to section "Getting started". You can follow the instructions "*Getting Started*" to make the changes and reboot the device without memory stick again.

## Extended Configuration

### Advanced

Advanced settings for measurement data retrieval and user data synchronization are available here. It is recommended to use HTTPS instead of HTTP as secure communication for measurement and user data transfer. You can additionally define a password for the communication.

- Access password: Password for the connection
- User-ID check: Access for only persons defined in the user database (no anonymous access)
- Delete the user database
- Upload user data via CSV file.  
The file must contain the column **ID** and **Name**.  
Lines with # at the beginning are ignored. Use **Semicolon** or **Tab-Stop** as Separator and file extension **TXT** or **CSV**. Character coding is **UTF-8**
- Download user data as TEXT/CSV file
- Relay trigger time settings
- Signal light timing
- Signal light buzzer settings



*MS-Excel view:*

	A	B
1	#userid	name
2	4042035996800	Daniel Steiner
3	2142035996823	Messmer Ralf
4	4642035936822	Renner Ilona
5		

*Stored as CSV or TXT file:*

```

userdata.csv - Editor
Datei Bearbeiten Format Ansicht ?
#userid;name
4042035996800;Daniel Steiner
2142035996823;Messmer Ralf
4642035936822;Renner Ilona
    
```

### Special Function:

#### Service-access without measurement validation

Users whose names are marked with a leading asterisk "\*" are allowed to pass even if the measurement values are out of range. The beacon will indicate yellow instead of green and no label will be printed.

## ■ Firmware Update

Use **Configuration** -> **Firmware upload** -> **Search** to select the appropriate BIN file. Only newer versions can be installed, downgrade is not possible. Use the **Save settings** button on the bottom of the page and wait until the update has finished (at least 3 minutes).



**Do not disconnect the power supply during the update.**

## Data Export Interface

Test data can be polled by Time Attendance or Access Control systems via Ethernet Interface.  
A HTTP-GET query returns the data in [Content-Type: text/plain Charset: utf-8].  
Export data is erased after each poll.

### Interface 1 - RAW

**URL**

http://<ip-address>/cgi-bin/pgt120-data.cgi?fetch=1

**0 Records:**

2011-01-19|16:53|||||no data||¶

**1 Record:**

2011-01-19|16:53||||2786|256|UserID missing|20.1|34.0¶

**Several Records:**

2011-01-19|16:53||||2786|256|UserID missing |20.1|34.0¶  
2011-01-19|16:54||||OVR|258|Wrist strap Hi-Fail; UserID missing |20.1|34.0¶  
2011-01-19|16:55||||2786|OK||20.1|34.0¶

**Meaning:**

date|time|rsg|rsl|rsr|rhg|erg|msg|id|tmp|hum

Field label	Description	Format
1 date	Date of Measurement	2011-01-19
2 time	Time of Measurement	16:53
3 rsg	Result Shoes in Series (kOhm)	Integer
4 rsl	Result Shoe left (kOhm)	Integer
5 rsr	Result Shoe right (kOhm)	Integer
6 rhg	Result Wrist Strap (kOhm)	Integer
7 erg	'OK' or ErrorCode	Number or String (see below)
8 msg	Terminals Message text	String (see below)
9 id	User-ID	RFID-Reader data (Filter: ASCII 32-127, max. 30 digits)
10 tmp	Temperature at measurement	20.1
11 hum	Humidity at measurement	34.0

**ErrorCode Message text (EN / DE)**

errorCode	Message text (EN / DE)
erg	msg
OK =	' '
0 =	no data
1 =	Wrist strap Lo-Fail / Handgelenkband Lo-Fail
2 =	Wrist strap Hi-Fail / Handgelenkband Hi-Fail
4 =	Left shoe Lo-Fail / Linker Schuh Lo-Fail
8 =	Left shoe Hi-Fail / Linker Schuh Hi-Fail
16 =	Right shoe Lo-Fail / Rechter Schuh Lo-Fail
32 =	Right shoe Hi-Fail / Rechter Schuh Hi-Fail
64 =	Measuring voltage failure / Fehlerhafte Messspannung
128 =	Unknown / Unbekannt
256 =	UserID missing / UserID fehlt
512 =	Unauthorized user / Unberechtigt
1024 =	Service access / Service Zugang
-10 =	Button released too early / Tastblech zu früh losgelassen

**Readings**

rsg,rsl,rsr,rhg

OVR = Measuring range exceeded / Messbereich überschritten  
UNR = Measuring range undercut / Messbereich unterschritten

*If several errors occur the error numbers are added.*

*Message text is language dependent (Adjust the language in system settings)*

## Interface 2 - CSV

Exported data in CSV can directly be opened with spreadsheet programs, i.e. MS-Excel.

### Differences to Interface 1:

- Field separation character is Semicolon
- All fields are quoted with double quotes
- If no data is present, then **erg** is set to "0" and **msg** is set to "no data"
- Number code (Button released too early) "-10" replaced by 'MTF' (Measuring Time Failure)
- If **erg** is "OK" then the field **msg** is set to "OK" as well
- OVR and UNR is suppressed, this field is empty for over-range or under-range conditions

URL:

-----

http://<ip-address>/cgi-bin/pgt120-data.cgi?fetch=2

### 0 Records:

```
"2011-01-19";"16:53";"";"";"";"";"0";"no data";"";"";""
```

### 1 Record:

```
"2011-01-19";"16:53";"";"";"";"2786";"256";"UserID missing";"";"20.1";"34.0"
```

### Several Records:

```
"2011-01-19";"16:53";"";"";"";"2786";"256";"UserID missing ";"";"20.1";"34.0"
```

```
"2011-01-19";"16:53";"";"";"";"";"258";"Wrist strap Hi-Fail; UserID missing  
";"";"20.1";"34.0"
```

```
"2011-01-19";"16:53";"";"";"";"2786";"OK";"OK";"";"20.1";"34.0"
```

### Meaning:

date|time|rsg|rsl|rsr|rhg|erg|msg|id|tmp|hum

Field Label	Description	Format
1 date	Date of Measurement	2011-01-19
2 time	Time of Measurement	16:53
3 rsg	Result Shoes in Series (kOhm)	Integer
4 rsl	Result Shoe left (kOhm)	Integer
5 rsr	Result Shoe right (kOhm)	Integer
6 rhg	Result Wrist Strap (kOhm)	Integer
7 erg	'OK' or ErrorCode	Number or String (see below)
8 msg	Terminals Message text	String (see below)
9 id	User-ID	RFID-Reader data (Filter: ASCII 32-127, max. 30 digits)
10 tmp	Temperature at measurement	20.1
11 hum	Humidity at measurement	34.0

### ErrorCode Message text (EN / DE)

errorCode	Message text (EN / DE)
OK	''
0	no data
1	Wrist strap Lo-Fail / Handgelenkband Lo-Fail
2	Wrist strap Hi-Fail / Handgelenkband Hi-Fail
4	Left shoe Lo-Fail / Linker Schuh Lo-Fail
8	Left shoe Hi-Fail / Linker Schuh Hi-Fail
16	Right shoe Lo-Fail / Rechter Schuh Lo-Fail
32	Right shoe Hi-Fail / Rechter Schuh Hi-Fail
64	Measuring voltage failure / Fehlerhafte Messspannung
128	Unknown / Unbekannt
256	UserID missing / UserID fehlt
512	Unauthorized user / Unberechtigt
1024	Service access / Service Zugang
MTF	Button released too early / Tastblech zu früh losgelassen

If several errors occur the error numbers are added.

Message text is language dependent (Adjust the language in system settings)

## Interface 3 - DatatermD

Special communication format for DatatermD service.

### Differences to Interface 1:

- If no data is present, then **erg** is set to "0" and **msg** is set to "no data"
- If **erg** is "OK" then the field **msg** is set to "OK" as well
- OVR and UNR is suppressed, this field is empty for over-range or under-range conditions

### URL

http://<ip-address>/cgi-bin/pgt120-data.cgi?fetch=3

### 0 Records:

2011-01-19|16:53|||||0|no data|||

### 1 Record:

2011-01-19|16:53||||2786|256|UserID fehlt||20.1|34.0

### Several Records:

2011-01-19|16:53||||2786|256|UserID fehlt||20.1|34.0  
2011-01-19|16:54||||OVR|258|Handgelenkband Hi-Fail; UserID fehlt||20.1|34.0  
2011-01-19|16:55||||2786|OK|OK||20.1|34.0

### Meaning:

date|time|rsg|rsl|rsr|rhg|erg|msg|id|tmp|hum

Field Label	Description	Format
1 date	Datum der Messung	2011-01-19
2 time	Uhrzeit der Messung	16:53
3 rsg	Messwert Reihenmessung (kOhm)	Integer
4 rsl	Messwert Schuh Links (kOhm)	Integer
5 rsr	Messwert Schuh Rechts (kOhm)	Integer
6 rhg	Messwert Handgelenkband (kOhm)	Integer
7 erg	'OK' oder Fehlercode	Zahl oder String s.u.
8 msg	Meldetext des Terminals	String s.u.
9 id	Benutzer-ID	Zeichenkette vom RFID-Leser (Filter: ASCII 32-127, max. 30 Stellen)
10 tmp	Temperatur bei Messung	20.1
11 hum	Feuchtigkeit bei Messung	34.0

### ErrorCode Message text (EN / DE)

erg	msg
OK =	OK
0 =	no data
1 =	Wrist strap Lo-Fail / Handgelenkband Lo-Fail
2 =	Wrist strap Hi-Fail / Handgelenkband Hi-Fail
4 =	Left shoe Lo-Fail / Linker Schuh Lo-Fail
8 =	Left shoe Hi-Fail / Linker Schuh Hi-Fail
16 =	Right shoe Lo-Fail / Rechter Schuh Lo-Fail
32 =	Right shoe Hi-Fail / Rechter Schuh Hi-Fail
64 =	Measuring voltage failure / Fehlerhafte Messspannung
128 =	Unknown / Unbekannt
256 =	UserID missing / UserID fehlt
512 =	Unauthorized user / Unberechtigt
1024 =	Service access / Service Zugang
-10 =	Button released too early / Tastblech zu früh losgelassen

If several errors occur the error numbers are added.

Message text is language dependent (Adjust the language in system settings)

## Technical Data

### Data Terminal

CPU:	ARM926 Core - 400 MHz
USB:	2 x USB 2.0 Full Speed (12 MBit/s) 500mA
Ethernet:	10/100 MBit/s IEEE 802.3 (RJ45 socket)
Serial interface:	RS232 Serial Port (D-SUB 9 socket)
Power supply:	100-240V AC via power supply 5V 1,2A
Dimensions:	105 x 84 x 30 mm



## Consumables

Following consumables are available for the **Label Printer (3)**:

Self-adhesive labels - colour: white. Type: SLP-STAMP2 (36x67mm) Part No: 7100.PGT120.COM.D.3

Self-adhesive labels - colour: orange. Type: SLP-1OLB (28x89mm) Part No: 7100.PGT120.COM.D.4

## Waste Disposal

The instrument is a category 9 product (monitoring and control instrument) in accordance with ElektroG (German and Electronic Device Law). This device is not subject to the RoHS directive. We identify our electrical and electronic devices in accordance with WEEE 2012/96/EU and ElektroG with the symbol shown to the right per DIN EN 50419. These devices may not be disposed of with the trash.



If you use batteries or rechargeable batteries in your instrument or accessories which no longer function properly, they must be duly disposed of in compliance with the applicable national regulations. Batteries or rechargeable batteries may contain harmful substances or heavy metal such as lead (PB), cadmium (CD) or mercury (Hg).

The symbol shown to the right indicates that batteries or rechargeable batteries may not be disposed of with the trash, but must be delivered to collection points specially provided for this purpose.