User's Manual

Data Terminal 3
PGT120.COM.DT3

Software V3.x

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Wolfgang Warmbier ®
Systeme gegen Elektrostatik

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 the integrated RFID-Reader.

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.DT3
- Power supply (with EU and US plug)
- USB to micro-USB cable (for activation of the internal RFID-Reader)
- 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
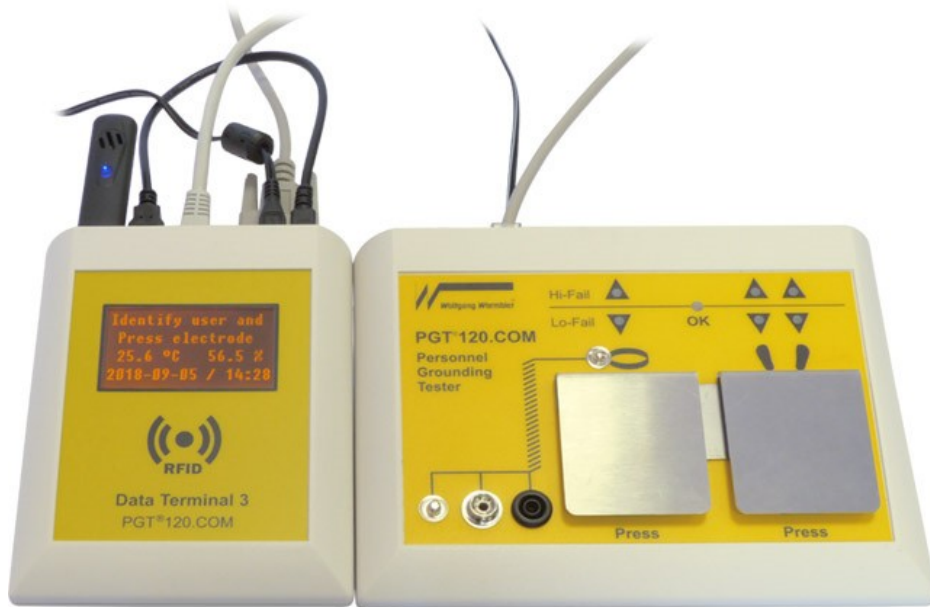
- The Data Terminal DT3 can be use as a benchtop unit beside the PGT120.COM or with an additional wall mounting plate

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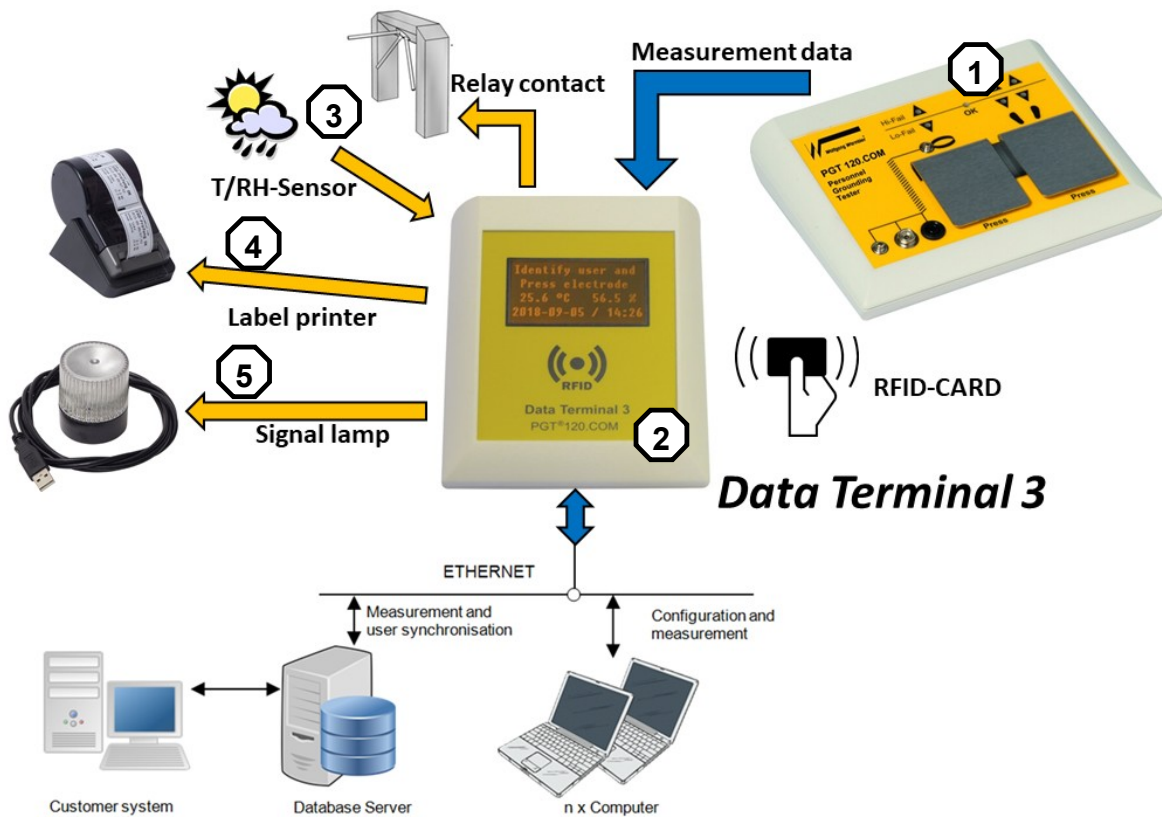
■ Optional Extensions

T/H-Sensor (3)

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

Type	EL-USB-RT
BUS	USB 1.1 (50 mA)
BUS-ID	1781:0EC4
Part No.	**7100.PGT120.TEST.10**

Label Printer (4)

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

Type	SLP650
BUS	USB 2.0
BUS-ID	0619:0502 / 0619:0126
Part No.	**7100.PGT120.COM.D.2**

```
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
```
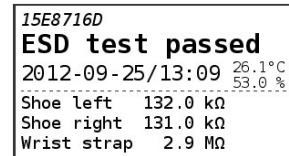
Beacon (Visual Signal Indicator) (5)

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

Type	USB HID Visual Signal Indicator RGY
BUS	USB 2.0 / USB 1.1 (100mA)
BUS-ID	0FC5:B080
Part No.	**7100.PGT120.TEST.13**

RED = **Measurement and ID test "not o.k."**

YELLOW = **Service access (= entrance without valid ESD test)**

GREEN = **Measurement and ID test "o.k."**

Interface Connection Example:

RFID	PWR	RELAY	LAN	USB	USB

PWR

Power supply

RFID

Internal RFID reader

RELAY

Door opener output (Solid State Relay)
Switches if the measurement is within the limit values and a valid user was identified.
Contact between pin 3 and 4.

Contact-less, solid state relay to switch **24V/DC (16V/AC**) **ohmic load** up to **2A**.
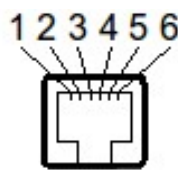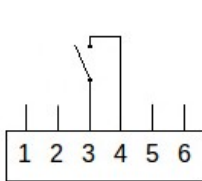
Schematic drawing of the relay
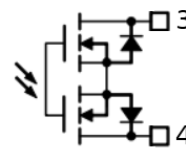
> ! **This output is designed to switch ohmic loads directly.**
> **To switch inductive loads, it is required to protect the relay from over-voltage surge with recovery diode or RC-combination/ snubber.**

LAN   Ethernet interface

4 x USB   **external component interface for e.g.**:

- Input device /RFID Reader
- T/H Sensor
- Label Printer
- USB Relay
- Signal light

Interface D-SUB9   for the connection to the PGT120.COM

Check of RFID-Cards with the internal RFID-Reader:

- The USB to micro USB cable must be connected between the RFID-socket and one of the USB ports.

■   Installation

Connect the PGT120.COM serial interface to the D-Sub9 socket (note: the connection cable is part of the delivery content of the PGT120.COM).
Four USB ports are available on the Data Terminal DT3. The optional device can be connected to these USB ports.

If desired, connect the Ethernet cable to the LAN socket.
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 safe the settings to continue.

Important settings:

- The Terminal's **time zone**, **date** and **time** must first be set in System settings.

- Measurement data – the menu option "**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. If "User" is selected then only lables will be printed for users which are marked with "print".
- Printer and paper selection
- Configure printing system
- Delete pending print jobs

PGT120.COM Data Terminal - Configuration

Measurement History Sysinfo Network Advanced Logout

System settings	
Company	
Language	English
Date (yyyy-mm-dd)	2019-01-12
Time (hh:mm)	09:59
Timezone	Europe/Berlin
Print network info on startup	● On ○ Off
Reboot terminal	Reboot
Change configuration password	Change
System reset	Reset
Firmware upload (V 3.2.3 is installed)	Durchsuchen... Keine Datei ausgewählt.
DHCP Hostname (FQDN)	

Measurement data	
Number of records per view	40
Footwear in series	○ On ● Off
Colour ident	● On ○ Off
Download measurement data	Download
Clear measurement data	Clear

Labelprinter	
Enable labelprinter	User
Printer device	slp650
Printer paper	01-STAMP2-(36x67)mm
Duplex	○ On ● Off
Configure labelprinter	
Print jobs	No print job active

Save settings

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 (3)** is connected.

If the internal RFID-Reader 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.

PGT120.COM Data Terminal - Measurement

History Sysinfo Configuration Logout

Date	Time	Shoe left	Shoe right	Wrist/Smock	Result	ID	Temp.	RH
2019-01-05	09:35:16			7.0 MΩ	OK	Pfeifle Rainer	22.6°C	47.0%
2019-01-05	09:35:10	7.0 MΩ	9.2 MΩ	5.5 MΩ	OK	Pfeifle Rainer	22.6°C	47.0%
2019-01-05	09:34:53	7.1 MΩ	9.1 MΩ	4.8 MΩ	OK	Speicher Jürgen	22.6°C	47.0%
2019-01-05	09:33:51			Hi Fail	Service access	*Cleaning no ESD test	22.6°C	47.0%
2019-01-05	09:33:16			Hi Fail	Service access	*Cleaning no ESD test	22.1°C	48.0%
2019-01-05	09:33:04			Hi Fail	Service access	*Cleaning no ESD test	22.1°C	48.0%
2019-01-05	09:32:57			Hi Fail	Unauthorized user	010EB744EF	22.1°C	48.0%
2019-01-05	09:31:04	6.5 MΩ	9.1 MΩ	Hi Fail	Wrist/Smock Hi-Fail	Speicher Jürgen	22.1°C	48.0%
2019-01-05	09:30:47	6.6 MΩ	Hi Fail	9.5 MΩ	Right shoe Hi-Fail	Speicher Jürgen	22.1°C	48.0%
2019-01-05	09:30:25			9.1 MΩ	OK	Pfeifle Rainer	22.1°C	48.0%
2019-01-05	09:30:12	6.9 MΩ	8.8 MΩ	9.5 MΩ	OK	Speicher Jürgen	21.6°C	48.0%
2019-01-05	09:29:57	7.3 MΩ	8.8 MΩ	Hi Fail	Wrist/Smock Hi-Fail	Speicher Jürgen	21.6°C	48.0%
2019-01-05	09:29:35			8.6 MΩ	Unauthorized user	010EB744EF	21.6°C	48.0%

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	3.2.3
Program version	3.2.0 (running)
Package version	3.2.3
System version	#1014 SMP Fri Jun 30 14:47:43 BST 2017
System time	2019-01-12 / 10:02
IP address	192.168.1.20
MAC address	b8:27:eb:01:88:a0
Last measurement poll	2019-01-05 / 19:08
Last User-DB sync	2019-01-05 / 09:33 (11 records)
Copyright	**Wolfgang Warmbier GmbH & Co. KG** Systeme gegen Elektrostatik

Connected devices	
Printer	off
Display	off
Relais	off
Signal light	off
T/H-Sensor	on
HID	09d8:0410

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

2018-07-02 2018-07-16 2018-07-17 2018-07-21 2018-07-24 2018-09-04 2018-09-10 2018-09-12 2018-10-09 2018-10-10 2018-10-18 2018-10-19 2018-10-22 2018-11-08 2018-11-09 2018-11-16 2018-11-17 2018-11-19 2018-11-24 2018-11-26 2018-12-05 2018-12-06 2019-01-05

20 records total - 2 Shoe fails - 7 Wrist/Smock fails

| Date	Time	Shoe left	Shoe right	Wrist/Smock	Result	ID	Temp.	RH
2019-01-05	09:17:46			6.6 MΩ	Service access	*Speicher Jürgen		
2019-01-05	09:24:45	6.4 MΩ	12.4 MΩ	5.2 MΩ	OK	Pfeifle Rainer	20.9°C	50.5%
2019-01-05	09:24:58			4.8 MΩ	OK	Pfeifle Rainer	20.9°C	50.5%
2019-01-05	09:25:14	8.0 MΩ	9.9 MΩ	4.6 MΩ	OK	Speicher Jürgen	20.9°C	50.5%
2019-01-05	09:25:25	**Hi Fail**	8.7 MΩ	3.6 MΩ	Left shoe Hi-Fail	Speicher Jürgen	20.9°C	50.5%
2019-01-05	09:26:08	7.4 MΩ	9.8 MΩ	**Hi Fail**	Wrist/Smock Hi-Fail	Speicher Jürgen	20.9°C	50.5%
2019-01-05	09:28:13			4.6 MΩ	OK	Francois Chambrelant	21.6°C	49.5%
2019-01-05	09:29:35			8.6 MΩ	Unauthorized user	010EB744EF	21.6°C	48.0%
2019-01-05	09:29:57	7.3 MΩ	8.8 MΩ	**Hi Fail**	Wrist/Smock Hi-Fail	Speicher Jürgen	21.6°C	48.0%
2019-01-05	09:30:12	6.9 MΩ	8.8 MΩ	9.5 MΩ	OK	Speicher Jürgen	21.6°C	48.0%
2019-01-05	09:30:25			9.1 MΩ	OK	Pfeifle Rainer	22.1°C	48.0%
2019-01-05	09:30:47	6.6 MΩ	**Hi Fail**	9.5 MΩ	Right shoe Hi-Fail	Speicher Jürgen	22.1°C	48.0%
2019-01-05	09:31:04	6.5 MΩ	9.1 MΩ	**Hi Fail**	Wrist/Smock Hi-Fail	Speicher Jürgen	22.1°C	48.0%
2019-01-05	09:32:57			**Hi Fail**	Unauthorized user	010EB744EF	22.1°C	48.0%
2019-01-05	09:33:04			**Hi Fail**	Service access	*Cleaning no ESD test	22.1°C	48.0%
2019-01-05	09:33:16			**Hi Fail**	Service access	*Cleaning no ESD test	22.1°C	48.0%
2019-01-05	09:33:51			**Hi Fail**	Service access	*Cleaning no ESD test	22.6°C	47.0%
2019-01-05	09:34:53	7.1 MΩ	9.1 MΩ	4.8 MΩ	OK	Speicher Jürgen	22.6°C	47.0%
2019-01-05	09:35:10	7.0 MΩ	9.2 MΩ	5.5 MΩ	OK	Pfeifle Rainer	22.6°C	47.0%
2019-01-05	09:35:16			7.0 MΩ	OK	Pfeifle Rainer	22.6°C	47.0%

■ Manual IP-Address Configuration

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.

PGT120.COM Data Terminal - Network settings

Measurement History Sysinfo Configuration Logout

Fixed IP address (If set DHCP will be disabled)	
IP-Address	192.168.1.20
Netmask	255.255.255.0
Gateway	

Save settings

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**.

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 minimum of 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

PGT120.COM Data Terminal - Advanced settings

Measurement History Sysinfo Configuration Logout

Advanced settings	
Access password	[ ] Use HTTPS:// for secure connection!
User-ID check	◉ On ○ Off
Delete user database	[Delete] (11 records)
User database upload (text/csv)	[Durchsuchen...] Keine Datei ausgewählt.
User database download (text/csv)	[Download]
Advanced timing	
Relais pulse length	[ ] default= 1.0 seconds
Signal light timing	[ ] default= 2.0 seconds
Signal light buzzer	[on red ▾]

[Save settings]

Table - userdata:

| Field	Content	Format
userid	User-ID	String - max. 30 characters (ASCII 32-127)
name	Name	String - max. 30 characters
Optional		
profile	Measure profile	Integer 0= OR (Arbitrary measurement) 1= Shoe test mandatory 2= Wrist strap test mandatory 3= AND – Shoe & Wrist strap test mandatory
print	Lable print	Integer 0= OFF 1= ON

View with MS-EXCEL:

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

	A	B	C	D
1	#userid	name	profile	print
2	2142035996823	Messmer Ralf	1	1
3	2242035996813	Nötig Ulrich	2	1
4	4042035996800	*Steiner Daniel		
5	4642035936822	Renner Ilona	3	0
6				

Data stored as CSV or TXT file:

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

```
userdata.csv - Editor
Datei  Bearbeiten  Format  Ansicht  ?
#userid;name;profile;print
2142035996823;Messmer Ralf;1;1
2242035996813;Nötig Ulrich;2;1
4042035996800;*Steiner Daniel;0;0
4642035936822;Renner Ilona;3;0
```

Special Function:

profile
If there is a specific number in the field "profile", then the relevant measurement is mandatory for this user

print
If there is the number "1" in Field "print" then the lable print is activated for a "passed" test of the specific person. In the printer configuration the setting must be seleceted to "User".

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.**

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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 erg		Message text (EN / DE) 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
2048	=	Wrong Measurement / Falsches Messprofil
-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 filed 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 erg		Message text (EN / DE) 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
2048	=	Wrong Measurement / Falsches Messprofil
MTF	=	Button released too early / Tastblech zu früh losgelassen

■ 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 filed 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 erg		Message text (EN / DE) 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
2048	=	Wrong Measurement / Falsches Messprofil
-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

Interface	4×USB, max. 600 mA
	1x D-SUB PGT®120.COM
	1x RJ45 LAN
	1x RJ12 RELAY
	1x Micro USB - RFID Reader
	1x Micro USB - POWER DC 5V
Power supply	AC 100–240V 50-60Hz / DC 5V, 2A
Housing	ABS
Safety class	IP20
Operating conditions	0°C to 40°C / up to 75% r.H.
Dimensions	120x150x63 mm
Weight	350 g
Output	Solid State Relay
	24V/DC (16V/AC) 2A - Ohmic load. External protection circuit for switching inductive loads is required!
Design	For indoor operation
	Table top / Wall mounting (with optional wall mounting bracket)
	Complies with CE

Consumables

Following consumables are available for the **Label Printer (4)**:
Self-adhesive labels - colour: white. Type: SLP-STAMP2 (36x67mm) Part No: 7100.PGT120.COM.D.3

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 EletroG 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.