

PGT[®]130.DT - Personnel Grounding Tester

(Part No.: 7100.PGT130.DT)

The PGT[®]130.DT is a compact test system for precise ESD measurement and documentation of ESD shoes, wrist strap and smock according to DIN EN 61340-5-1 and ANSI ESD S20.20.

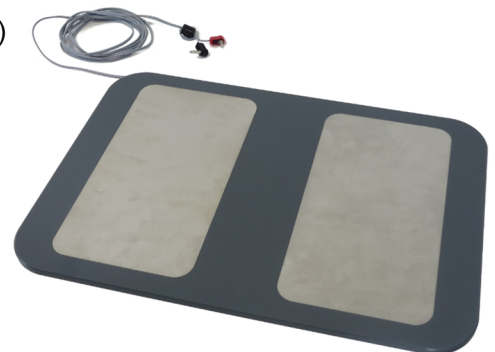
Multiple devices can be networked together and managed by **DataTermD** software. User data and measurement data can be managed central.

Device configuration and measurement data retrieval can be achieved with 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.

- User identification via integrated RFID reader or external HID compatible USB input device i.e., barcode scanner, keyboard or magnetic stripe reader.
- The test result is indicated with audible and visual signals. A positive or negative result is displayed via a color change "green/red" with measured values.
- The measurement takes place via sensor surfaces
- Wrist strap, right and left shoe testing is simultaneously possible by separate measuring circuits
- In combination with a barrier gate, the footwear measurement can be performed in series without pressing a sensor surface (hands-free mode).
- Lower limit disabling for footwear- and wrist-strap test
- A relay with a dry contact provides the connection to a door opening system.
- The unit can be used on bench tops or as a wall mounted unit (Wall mounting requires an additional wall mounting plate)
- The device is configurable locally or via network
- Mixed operation is possible with PGT[®]120.COM Data terminal DT2, DT3 and TC18

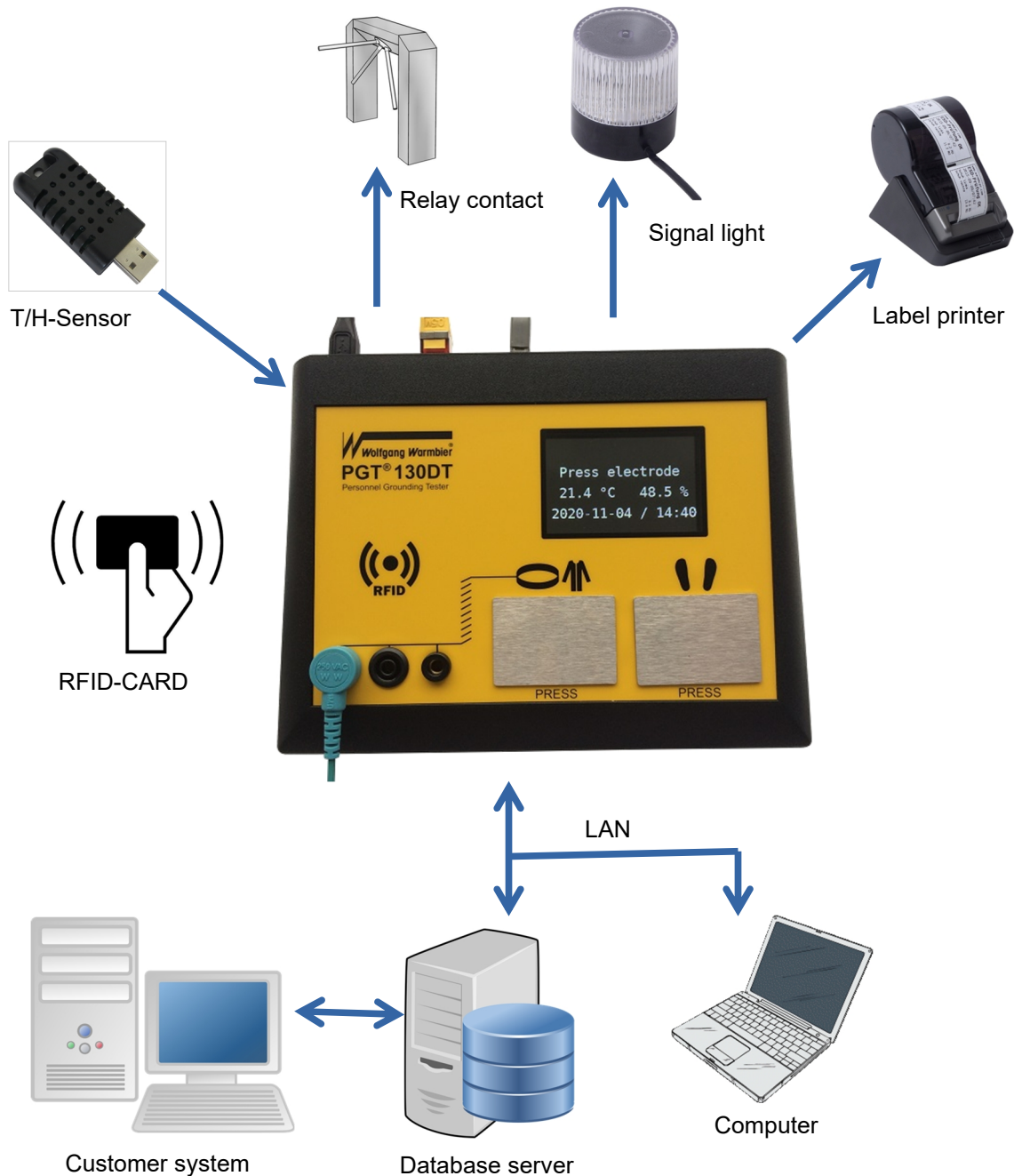
Dimensions:
150 x 200 x 65 mm (as PGT120.COM)



Picture:
Footplate for separate shoe testing
(350 x 500 x 9 mm)

Remote PC functions when connected to network:

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



Technical Information

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Connections

CAL

Calibration socket

Shoe Left / right

Socket for footwear electrode

RELAY

Door opener output

USB1 / USB2

USB Ports

LAN

Ethernet interface

PWR

Power supply



Measurements

PGT130.DT Personnel Grounding Tester - Measurement

[History](#) | [Sysinfo](#) | [Configuration](#) | [Logout](#)

Date	Time	Shoe left	Shoe right	Wrist/Smock	Result	ID	Temp.	RH
2021-07-14	09:02:43	2.3 MΩ	3.0 MΩ	2.4 MΩ	OK	User 04	26.1°C	54.0%
2021-07-14	08:20:22			2.6 MΩ	OK	User 03	26.1°C	54.0%
2021-07-14	08:19:49	1.9 MΩ	2.5 MΩ	Hi Fail	Wrist/Smock Hi-Fail	User 03	26.1°C	54.0%
2021-07-14	08:19:09	1.9 MΩ	2.3 MΩ		OK	User 02	26.1°C	54.0%
2021-07-14	08:18:40	Hi Fail	2.7 MΩ		Left shoe Hi-Fail	User 02	26.1°C	54.0%
2021-07-14	08:18:10			2.5 MΩ	OK	User 01	26.1°C	54.0%
2021-07-14	07:48:43			Hi Fail	Service access	*Service	26.1°C	54.0%
2021-07-14	07:44:26	2.1 MΩ	2.7 MΩ		OK	User 02	26.1°C	54.0%
2021-07-14	07:43:53			2.4 MΩ	OK	User 03	26.1°C	54.0%
2021-07-14	07:43:11	Hi Fail	Hi Fail	2.4 MΩ	Left shoe Hi-Fail; Right shoe Hi-Fail	User 02	26.1°C	54.0%
2021-07-14	07:42:42	2.4 MΩ	3.1 MΩ	2.6 MΩ	OK	User 04	26.1°C	54.0%

The stored measurement data can be seen via a WEB-Browser over the LAN connection.



Test results indicated with background colour (green/red)



Limits and modes

	Test voltage
Test voltage (no-load operation)	100V / 50V / 30V DC
Upper limits	Measure range
Wrist / Smock	35 MΩ, 100 MΩ, 1 GΩ
Footwear - each shoe	20 MΩ, 35 MΩ, 70 MΩ, 100 MΩ
Footwear - in series	40 MΩ, 70MΩ, 140 MΩ, 200 MΩ
Lower limits	Measure range
Wrist / Smock	750 kΩ, OFF
Footwear	100 kΩ, OFF

Technical Data (extract)

See user's manual for complete technical data

Power consumption:	ca. 1,6W	
Power supply:	AC 100–240V 50-60Hz	
Modes:	Single test „OR“ Double test „AND“ Only Wrist - Only shoe Hands-Free (Shoes in series)	
Measure time:	< 2 Sec.	
Dimensions:	200 x 150 x 63 mm	Weight: 500 g
Footwear electrode:	500 x 350 x 9 mm	Weight: ca. 2 kg

Scope of Delivery:

- PGT[®]130.DT
- Power supply (EU / US)
- Footwear electrode
- User's manual (German/English)
- Calibration certificate (German/English)

Accessories

Wall mounting plate for vertical device mounting Part.-No: 7100.PGT130.DT.WH	
Temperature + Humidity Sensor for environmental data logging Part.-No: 7100.PGT130.DT.TF	
Calibration Unit for measurement verification Part.-No: 7100.PGT130.DT.CU	
Label Printer for documentation Part.-No: 7100.PGT120.COM.D.2	 <div><p>User 04 ESD test passed 2021-07-03/09:24 25.3°C 43.9 % Shoe left 4.8 MΩ Shoe right 3.8 MΩ Wrist/Smock 2.3 MΩ</p></div>
Beacon for visual signalization Part.-No: 7100.PGT120.TEST.13	


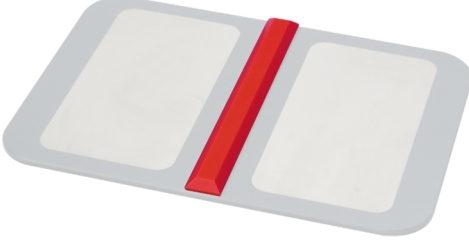
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<p>USB-HUB (passive) for USB extension Part.-No: 7100.PGT120.TEST.16</p>	
<p>Center bar for footplate to avoid transgress Part.-No: 7100.PGT130.SE.TR</p>	

- ▶ 1 year limited warranty
- ▶ Recommended calibration interval: 2 years
- ▶ Persons with active implants (i.e., pacemakers) should use the Personnel Grounding Tester only after consultation with a specialist