

Warmbier Test Equipment PGT120.COM Personal Grounding Tester

The PGT120.COM is a complete test station for ESD footwear and wrist straps with Data Collection.

The PGT120.COM personnel grounding tester takes quick and accurate resistance measurements of the ESD grounding products with the ability to integrate with a computer to store test data. Access to this information is valuable to your quality program.

The unit operates with 3 independent measuring circuits for the left shoe, the right shoe and the wrist strap. The shoes can even be measured in a hands free mode which means that the staff members are tested automatically when standing on the plate. PGT120.COM can be connected to an automatic door opening system which allows entry with only passing results.

Data Collection

The Data Terminal in combination with PGT120.COM collects ESD tests measurement data:

- User identification with any USB HID input device
- 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

The PGT120.COM is supplied complete with footwear testing electrode, flexible cord, transformer with power cord and calibration protocol. Recommended calibration interval is 24 month Corresponding wall mounting plate, and electrode anti-fatigue mat is sold separately.

Applications:

The PGT120 tests the functioning of ESD personal grounding equipment such as ESD shoes, heel grounders and wrist straps.

This document is prepared for our customers as a service, and is to the best of our knowledge true and accurate. However, it is understood and agreed by the users of this document that we will accept no liability for the conclusions reached. Users of this document may therefore wish to perform additional testing before determining that products mentioned are suitable.



Features

- **Independently Test Footwear & Wrist Strap Grounding Products**
- **Network Ready and Results are Stored in Database**
- **Automatically Test Footwear in Hands-Free Mode**
- **Can be Integrated into with other devices such as Door/Barrier Opening**

PGT120 Tester Data Management

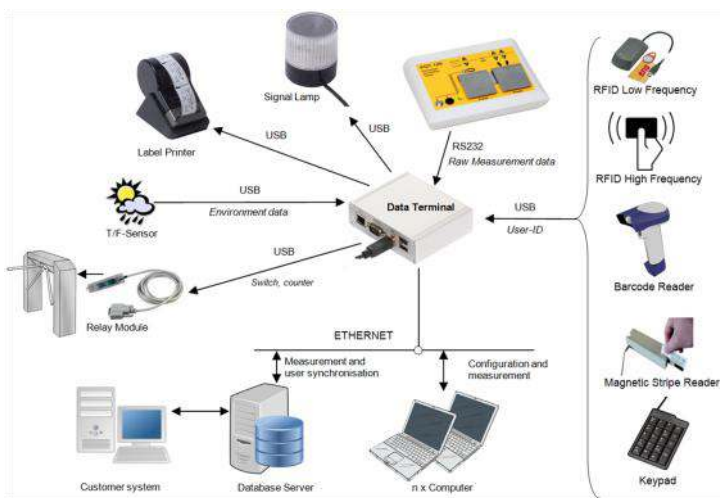
The PGT120.COM includes an additional RS232 interface to process measurement data and test results in a data base. A computer or a terminal can be connected to the serial RS232 interface. The following data is available in ASCII format:

- Value Footwear in Series: Value in kOhm
- Value Wrist Strap System: Value in kOhm
- Value of Left Foot: Value in kOhm
- Value of Right Foot: Value in kOhm
- Test OK: OK
- Test Failed: Error no.

| Measurements | | | | | | | | |
|--------------|------------|-------|-----------|------------|-------------|--------|-------|------|
| | Date | Time | Shoe left | Shoe right | Wrist strap | Result | Temp. | RH |
| 1 | 2013-09-11 | 09:28 | 15.0 MΩ | 3.3 MΩ | 2.5 MΩ | OK | 22.4 | 45.4 |
| 2 | 2013-09-11 | 09:28 | 47.0 MΩ | 3.5 MΩ | 2.5 MΩ | 8 | 22.4 | 45.4 |
| 3 | 2013-09-11 | 09:28 | 14.2 MΩ | 3.2 MΩ | 2.6 MΩ | OK | 22.4 | 45.4 |
| 4 | 2013-09-11 | 09:28 | 6.0 MΩ | 3.2 MΩ | 2.4 MΩ | OK | 22.4 | 45.4 |
| 5 | 2013-09-11 | 09:28 | | | 2.4 MΩ | OK | 22.4 | 45.4 |
| 6 | 2013-09-11 | 09:28 | 4.2 MΩ | 69.6 MΩ | | 32 | 22.4 | 45.4 |
| 7 | 2013-09-11 | 09:27 | 4.3 MΩ | 33.0 MΩ | | OK | 22.4 | 45.5 |
| 8 | 2013-09-11 | 09:27 | 4.6 MΩ | 32.8 MΩ | | OK | 22.4 | 45.5 |
| 9 | 2013-09-11 | 09:27 | 27.5 MΩ | 3.5 MΩ | | OK | 22.4 | 45.5 |
| 10 | 2013-09-11 | 09:27 | 29.6 MΩ | 3.6 MΩ | | OK | 22.4 | 45.5 |
| 11 | 2013-09-11 | 09:27 | 27.8 MΩ | 3.6 MΩ | | OK | 22.4 | 45.5 |
| 12 | 2013-09-11 | 09:27 | 18.4 MΩ | 3.4 MΩ | | OK | 22.4 | 45.5 |
| 13 | 2013-09-11 | 09:27 | 9.7 MΩ | 3.7 MΩ | | OK | 22.4 | 45.5 |
| 14 | 2013-09-11 | 09:26 | 34.3 MΩ | 3.6 MΩ | | OK | 22.3 | 45.5 |
| 15 | 2013-09-11 | 09:26 | 8.7 MΩ | 3.7 MΩ | | OK | 22.3 | 45.5 |
| 16 | 2013-09-11 | 09:26 | 5.1 MΩ | 4.1 MΩ | | OK | 22.3 | 45.5 |
| 17 | 2013-09-11 | 09:26 | 4.2 MΩ | 5.8 MΩ | | OK | 22.3 | 45.5 |
| 18 | 2013-09-11 | 09:26 | 5.5 MΩ | 4.5 MΩ | | OK | 22.3 | 45.5 |
| 19 | 2013-09-11 | 09:25 | 4.3 MΩ | 5.7 MΩ | | OK | 22.2 | 45.4 |
| 20 | 2013-09-11 | 09:25 | 5.3 MΩ | 4.4 MΩ | | OK | 22.2 | 45.4 |

Pair the unit with the PGT120.COM Data Terminal and you receive real-time ESD testing with personnel identification, access control and central data maintenance. Also connect to a number of accessories such as a label printer, bar code scanner, RFID, database server and much more.

- Ready to integrate into existing infrastructure
- Multiple PGT120.COM stations can be networked
- Existing identity cards or time attendance cards can be re-used
- Open database interface
- Measurement data is ready to process after a few seconds
- Various databases can be used
- Combination with existing access systems is possible
- Secure network communication



PGT120.COM Tester

Accessories

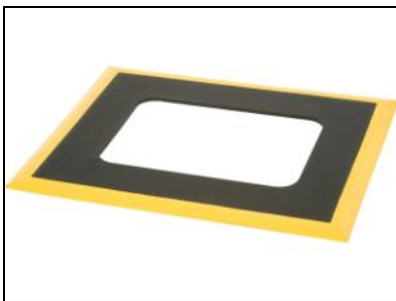
The PGT 120.COM is supplied complete with footwear electrode, flexible cord, and transformer with power cord. The following accessories are available:



The PGT120.CU periodic verification unit is used to check that the PGT120 tester is working properly.



PGT120.WK is a mounting plate that can securely fix the PGT120 meter to a wall.



PGT120.SM is a anti-fatigue mat with a cutout to house the footwear electrode. Complete with beveled yellow edges to reduce tripping and provide a clean look.

| Model PGT120.COM | Specifications |
|------------------------------------|--|
| Power Input | 230 VAC power supply |
| Test range: | |
| Wrist Strap & Coil Cord | 750 kΩ 35 MΩ |
| Shoes (each shoe) | < 20 / 35 / 70 / 100 MΩ |
| Shoes in Hands-free" Mode | < 40 / 70 / 140 / 200 MΩ |
| Signals: | |
| Green LED | "OK" |
| Red LED's and buzzer | "Hi-Fail" or "Lo-Fail" |
| Door opener | Dry contact "OK" |
| Door opener time | 3 seconds |
| Dimensions: | |
| Meter | .59 x 7.87 x 2.4 in |
| Footwear Electrode | 13.7 x 19.6 in |
| Mat for Footwear | 32.67 x 26.7 x .51 in |
| Part Numbers: | |
| 7100.PGT120: | Personal Grounding Tester |
| 7100.PGT120.COM.DT | Data Terminal |
| 7100.PGT120.COM.SOFT | Software |
| 7100.PGT120.WK: | Wall Mounting Plate |
| 7100.PGT120.CU: | Calibration Unit for PGT120 |
| 7100.PGT120.SM: | Mat for Footwear Electrode with Yellow Beveled Edges |

About Transforming Technologies

Since 1998, Transforming Technologies has helped electronic manufacturing facilities to protect their products and processes from the many serious problems associated with static electricity.

Transforming Technologies offers a wide range of unique and outstanding products to detect, protect, eliminate and monitor electrostatic charges. Our products are integral components of an effective static control program.