

### AccessPRO - PGT120K340

Data Logging PGT120 with Data Terminal 3 & FastPass Turnstile

**The PGT120K340 is an easy to use and complete test station for ESD footwear and wrist straps, access control and datalogging.**

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.

#### Data Collection

The Data Terminal 3 in combination with PGT120.COM collects ESD tests measurement data:

- User identification with any USB HID input device
- Central data collecting and control server synchronizes measurement data and access control
- Open database interface for connecting customer systems

#### Access Control

The PGT120 personnel grounding tester with the FastPass turnstile verifies the functionality of an operator's wrist strap, ESD footwear or ESD jacket and only allows access through the turnstile with a PASS test. The USA made FastPass turnstiles are designed for years of reliable service in high traffic/volume applications. Thousands are currently in use in factories, pro-sports venues, amusement parks and high-profile attractions worldwide. The cabinets are constructed of heavy 14-gauge, 300 series satin stainless steel with minimal exposed hardware.

#### Components



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.



With the PGT120 ESD Tester

### Features

- **Independently Test ESD Grounding Products for Functionality**
- **Pass/Fail Results are Indicated Audibly and Visually**
- **Log Test Results into Computer Database with Reliable Software**
- **Automatically Test Footwear in Hands-Free Mode**
- **Controls Access to ESD Protected Areas with FastPass Turnstile Integration**

#### Applications:

The PGT120 tests the functioning of ESD personal grounding equipment such as ESD shoes, heel grounders and wrist straps. Testing ESD grounding equipment is an integral part of a complete ESD program.

## 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

Pairing the unit with the PGT120.COM Data Terminal 2 provides 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



**7100.PGT120.COM.US**  
Not included with kit. Software is a one-time fee and works with up to 32 testers

### HID Input

The PGT120K330 includes a basic keypad to input employee identifiers. Also built into the data terminal 3 is a RFID card reader. This allows existing identity cards to be used with the unit. If you have existing cards, the reader may have to be formatted to work with your card.



### PGT120 Accessories



#### 7100.PGT120.CU.12

Calibration Unit contains resistors to test the limits of the PGT120.



#### 7100.PGT120.SM

Anti-fatigue mat with a cutout to house the footwear electrode. Complete with beveled yellow beveled edges for a complete, clean look.



#### 7100.PGT120.COM.D.2

Label printer that will print off employee ID and test results



#### 7100.PGT120.TEST.13

Signal lamp lights up green or red depending on pass or fail

Model PGT120.COM	Specifications
Power Input	9 volt battery (tester) or ; 110 VAC power supply
Test range:	
Wrist Strap & Coil Cord	750 kW ..... 35 MW
Shoes (each shoe)	< 20 / 35 / 70 / 100 MW
Shoes in Hands-free" Mode	< 40 / 70 / 140 / 200 MW
Signals:	
Green LED	"OK"
Red LED's and buzzer	"Hi-Fail" or "Lo-Fail"
Door opener	Dry contact "OK"
Door opener time	3 seconds
Weight:	app. 500g
Dimensions:	150 x 200 x 63 mm

#### Part Numbers:

##### PGT120K340 Kit List

7100.PGT120.COM.US:	Tester & Footplate
7100.PGT120.DB9:	Relay Cable
FP-500:	FastPassTurnstile
7100.PGT120.TEST.12:	Relay Module
7100.PGT120.WK:	Mounting Plate, Wall or Turnstile
7100.PGT120.COM.DT3	Data Terminal Controller 3
7100.PGT120.TEST.10:	Temp/Humidity Sensor
7100.PGT120.TEST.11:	Keypad
7100.PGT120.TEST.16:	USB Hub

### 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.



# TRANSFORMING TECHNOLOGIES

OUTSTANDING ALTERNATIVES IN STATIC CONTROL

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