

Calibration Unit for PGT[®]120



Calibration manual for PGT120 with DIP12 switch



1 Preparation

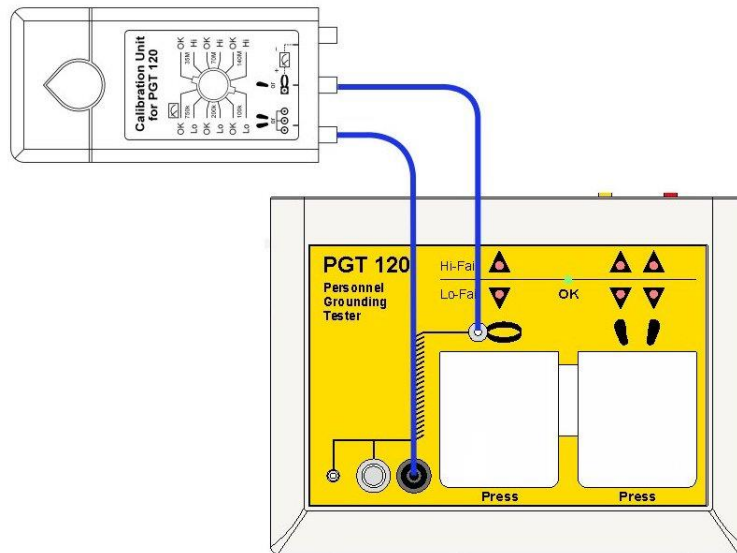
Starting point for all measurements are the following DIP switch settings.
 The calibration is performed with the customers test voltage setting (DIP-switch 4 and 5)
 If desired, the test can be repeated with the other available test voltage settings.

ON								5	4			
OFF					8					3	2	1

2 Wrist strap verification

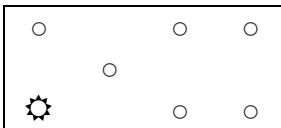
To check the limits of the wrist strap test connect:

- the middle jack of the calibration unit with the 3 mm snap of the PGT[®] 120 (same symbols ). Use the DK3-socket adaptor which is included.
- the left jack of the calibration unit with the black 4 mm banana socket of the PGT[®] 120. (wrist strap test, same symbols ).



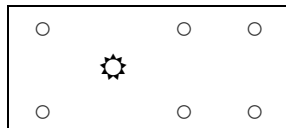
Set the marked lever of the rotary switch in succession to the positions mentioned below. Press the left contact electrode for each measurement.

750k Lo

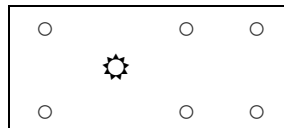


Display LED

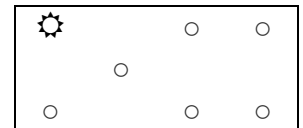
750k OK



35M OK





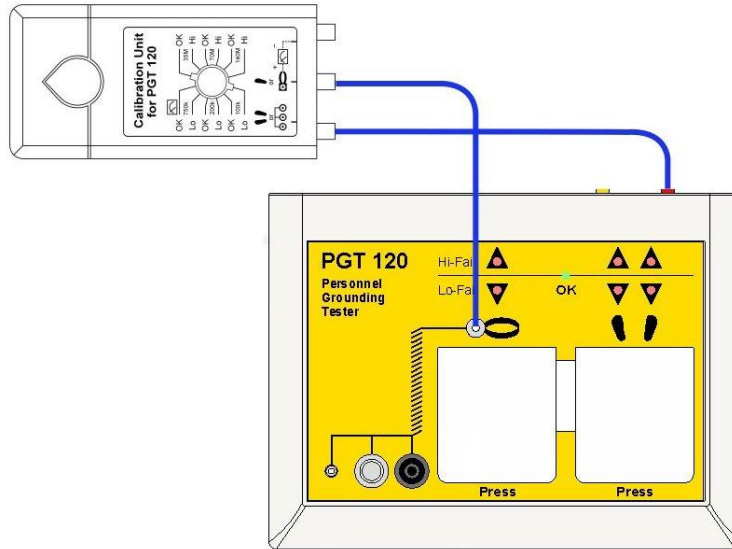
35M Hi



3 Footwear test verification (single shoe) - right

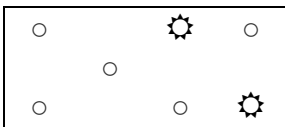
To check the limits of the footwear test connect:

- the middle jack of the calibration unit with the 3 mm snap of the PGT[®] 120 (same symbols ). Use the DK3-socket adaptor which is included.
- the left jack of the calibration unit with the red 4 mm socket on the rear side of the PGT[®] 120 (footwear electrode, same symbols ).



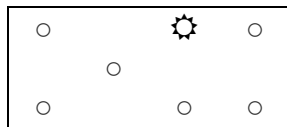
Set the marked lever of the rotary switch in succession to the positions mentioned below. Press the right contact electrode for each measurement.

100k Lo

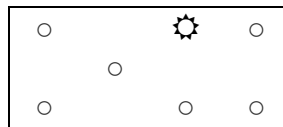


Display LED

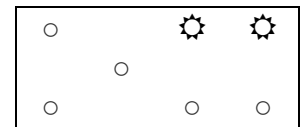
100k OK



35M OK



35M Hi

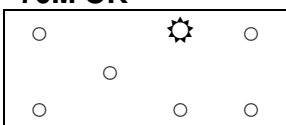


3.1 DIP-switch settings for upper limit 70 MΩ

Switch 3	Switch 4	➔	ON							5	3		
ON	OFF		OFF					8				4	

Set the marked lever of the rotary switch in succession to the positions mentioned below. Press the right contact electrode for each measurement.

70M OK





Display LED

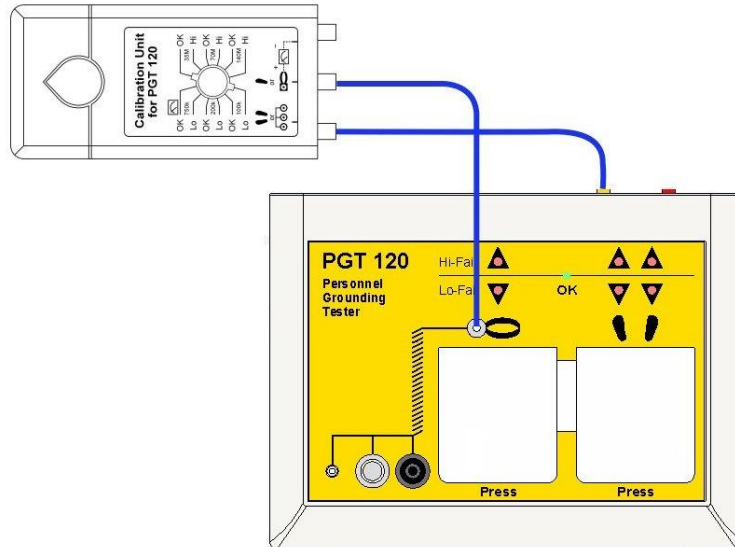
70M Hi



4 Footwear test verification (single shoe) - left

To check the limits of the footwear test connect:

- the middle jack of the calibration unit with the 3 mm snap of the PGT[®] 120 (same symbols ). Use the DK3-socket adaptor which is included.
- the left jack of the calibration unit with the yellow 4 mm socket on the rear side of the PGT[®] 120 (footwear electrode, same symbols ).

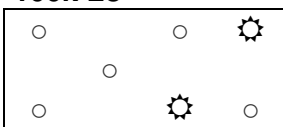


4.1 DIP-switch setting for upper limit 35 MΩ

Switch 3	Switch 4	➔	ON							5	4				
OFF	ON		OFF					8					3	2	1

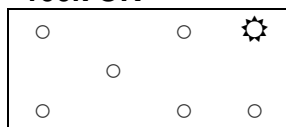
Set the marked lever of the rotary switch in succession to the positions mentioned below. Press the right contact electrode for each measurement.

100k Lo

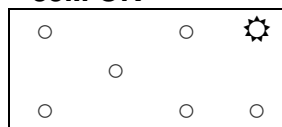


Display LED

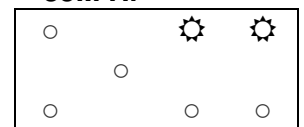
100k OK



35M OK



35M Hi

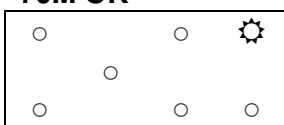


4.2 DIP-switch setting for upper limit 70 MΩ

Switch 3	Switch 4	➔	ON							5		3			
ON	OFF		OFF					8				4		2	1

Set the marked lever of the rotary switch in succession to the positions mentioned below. Press the right contact electrode for each measurement.

70M OK



Display LED

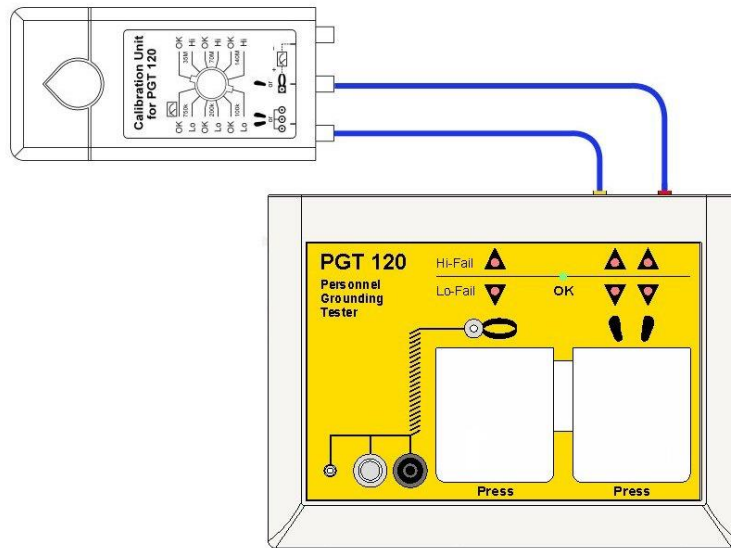
70M Hi



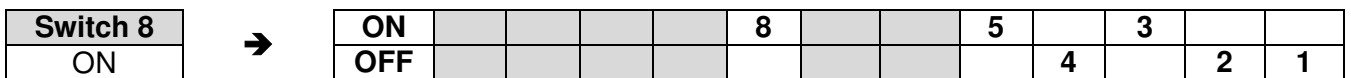
5 Footwear test in series

To check the limits of the footwear test connect:

- the middle jack of the calibration unit with the red 4 mm socket on the rear side of the PGT® 120
- the left jack of the calibration unit with the yellow 4 mm socket on the rear side of the PGT® 120

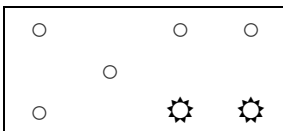


5.1 DIP-switch setting for upper limit 140 MΩ for series



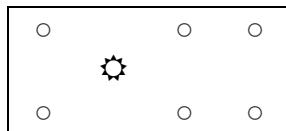
Set the marked lever of the rotary switch in succession to the positions mentioned below. Reset the instrument after each measurement by disconnecting the left wire:

200k Lo

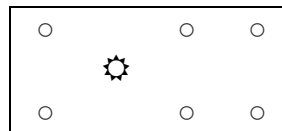


Display LED

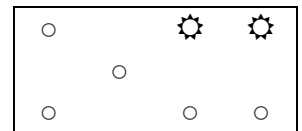
200k OK



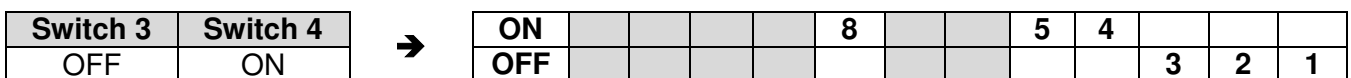
140M OK



140M Hi

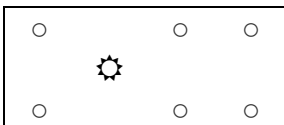


5.2 DIP-switch setting for upper limit 70 MΩ for series



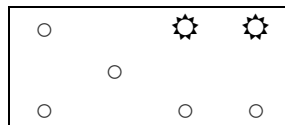
Set the marked lever of the rotary switch in succession to the positions mentioned below. Reset the instrument after each measurement by disconnecting the left wire:

70M OK





Display LED

70M Hi

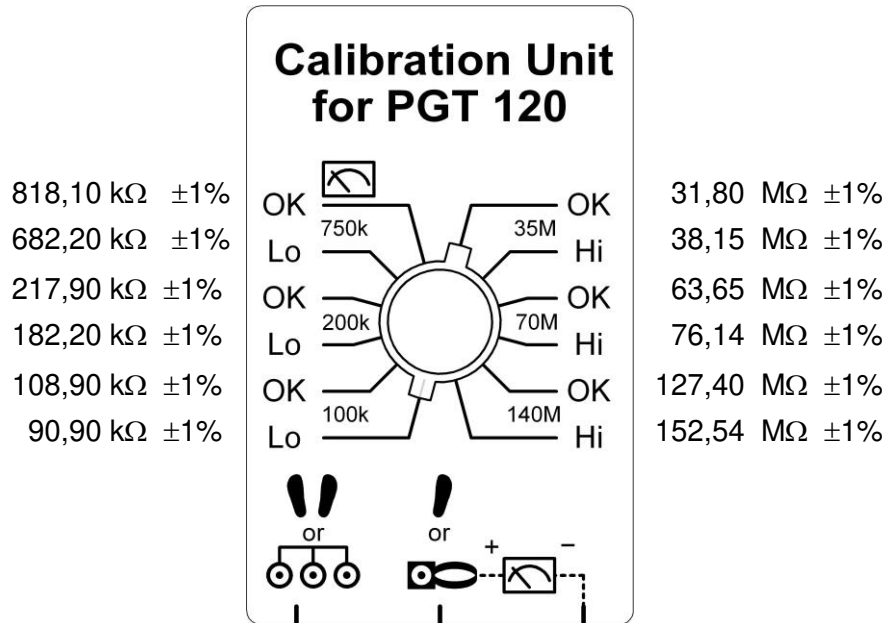


6 Calibration Unit verification

Recommended calibration cycle: 3 years

To check the resistors, connect a suitable Ohmmeter to the central jack  and the left jack  of the Calibration Unit and set the **marked** lever of the rotary switch in succession to the marked positions. The corresponding resistor values and tolerances can be taken from the drawing below.

Also connect the Ohmmeter to the central  and right jack of the Calibration Unit. Nominal value must be: 24,4 kΩ ±1%



7 Device Return and Environmentally Compatible Disposal

The **instrument** is a category 9 product (monitoring and control instrument) in accordance with ElektroG (German Electrical and Electronic Device Law). This device is not subject to the RoHS directive.

We identify our electrical and electronic devices (as of August 2005) in accordance with WEEE 2012/19/EU and ElektroG with the symbol shown to the right per DIN EN 50419.

These devices may not be disposed of with the trash.

Please contact our service department regarding the return of old devices.



Subject to change without notice

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