

# Personal Grounding Tester

## PGT-50



Permanent grounding supervision of people with wrist straps.

The appliance is installed solidly at work desk. The grounding takes place at the grounding point of the table covering. The power supply takes place over a plug power adapter.

The limits can be changed by the customer himself.

### Description

ABS - plastic housing with connector for a wrist strap with 10mm snap in.

Permanent supervision of the grounding, i.e. the appliance recognizes whether the wrist strap is plugged in.

The result is displayed with only two LED's:

A green LED for :	Flashing :	No wrist strap connects => Unit is stand by mode
	Light :	wrist strap connect => Grounding o.k.

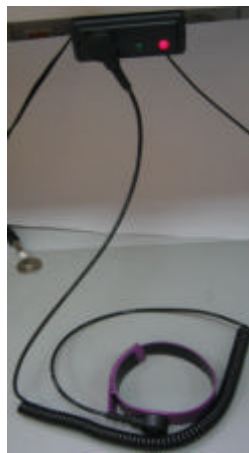
A red LED for:	Flashing 1 Hz long-short:	Impedance to ground is to low <
	Flashing 3 Hz short - short :	Impedance to ground is to high > or the wrist strap is not contacted

For the acoustic signal a buzzer, which is sounded parallel to the red LED, is integrated.

## Specifications

Dimension	: 96mm x 60mm x 23mm (L x B x H)
Weight	: ca. 150g
Power supply	: Plug adaptor 7,5V-9V= / 150-200mA
Display	: 1 LED green, 1 LED red, 1 Buzzer
Measurement	: Capacitive

## Manual



Wrist strap open



wrist strap o.k.

Connect the unit with the power strips on your working desk, than connect the unit at the grounding point of the table covering.

After connecting the power supply, the unit works in stand by mode, the green LED flashes with app. 0,5 Hz, but no measurement is taken.

The appliance recognizes, if a wrist strap is connected, and the measurements start. It is measured whether the resistance value is between the calibrated limits.

Is he resistance between the calibrated limits the green LED lights up permanently.

Is the resistor out of the limits, the green LED switches off, and the red LED displayed as following :

Flashing 1 Hz Long-short:	Impedance to Ground to low <
Flashing 3 Hz short - short :	Impedance to Ground to high > or wrist strap no right contact

Additional to the red LED sounds an acoustic signal (buzzer).

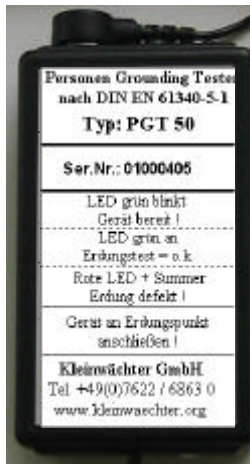
The measurements are executed permanently, as long as the wrist strap is connected.

## **Grounding**

The black cord must be connected to the table grounding point !

The appliance always must be grounded !!!

## **Short instruction**



At the bottom of the appliance  
a short instruction manual is placed.

## **Limits**

The lower and upper limit is readed in by reference resistors.

Limits :                      lower limit < 750 kOhm  
                                    Upper limit > 4,7 MOhm  
                                    Special limits on customers' need possibly!

## **Delivery parts**



PGT-50 incl. grounding cord

and plug power supply 7,5V-9V/150-200mA=

## **Optional accessories**

RRP-50 reference resistor pair in a plastic housing for the  
lower and upper limits.

## Calibration of the limits

Button H ↓



You need:                      Donate or small screw driver,  
RRP-50 (reference resistor pair)  
1 Measure cord with 4mm banana plug

### Course:

Disconnect plug power adapter, grounding must be remained

- Push and hold the hidden button (H) with a donate
- Connect the power plug adapter
- When the red LED lights up and the buzzer sounds release the button
- Red LED (+ buzzer) flashes 5 times, than the green LED lights up
- Connect the RRP-50 to the wrist strap snap in. Than connect the resistor UGW to ground.
- Press button „H“ shortly
- The red LED lights up shortly incl. the buzzer, than the green LED switches on.
- Disconnect the ground from the UGW resistor and connect it at OGW resistor.
- Press button „H“ shortly
- The red LED lights shortly incl. the buzzer, than the green LED switches on.
- Disconnect the RRP-50 from the unit
- Press button H shortly
- Both LED's lights and the buzzer sounds.
- Disconnect the power supply for a short time.

Suggested Calibration time: annual