

Wristlab-II

INSTRUCTION MANUAL



EC CONFORMITY

Units 9264.960 and 9264.960.1G conforms to EC directives EMC - 2014/30/EU , the following harmonized standards are in use EN 61000-6-1, EN 61000-6-3

WARRANTY

This unit is guaranteed against all defects due to faulty materials and workmanship, within 12 months from the date of purchase.

A use not conforming to what specified might be dangerous to the safety of the operator and may damage the unit.

In such circumstances the manufacturer is relieved of any liability and the warranty itself will decay.

REPAIR

Repairs have not been attempted by anyone other than authorized repair distributors.

Do not try to repair the unit by yourself.

Protecting the environment

Separate collection. This product must not be disposed of with normal household waste.

Should you find one day that your product needs replacement, or if it is of no further use to you, do not dispose of it with household waste. Make this product available for separate collection.

Separate collection of used products and packaging allows materials to be recycled and used again.



Re-use of recycled materials helps prevent environmental pollution and reduces the demand for raw materials.

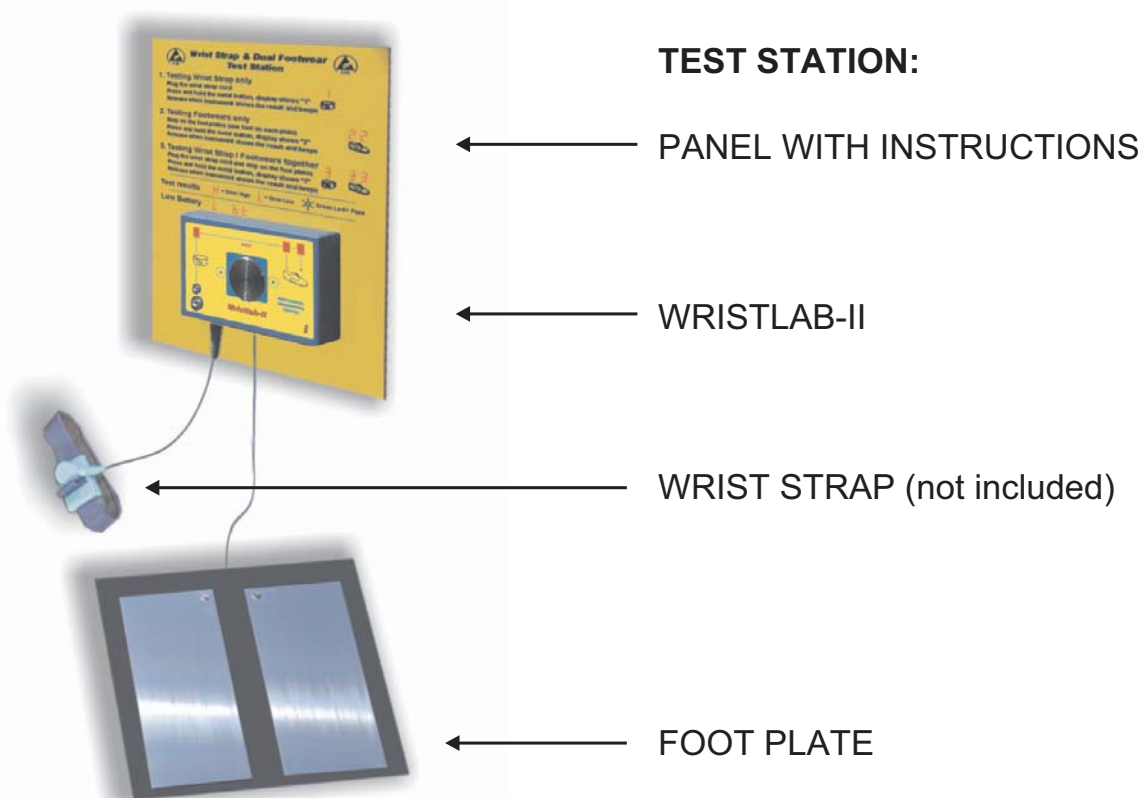
Local regulations may provide for separate collection of electrical products from the household, at municipal waste sites or by the retailer when you purchase a new product.



TECHNICAL FEATURES

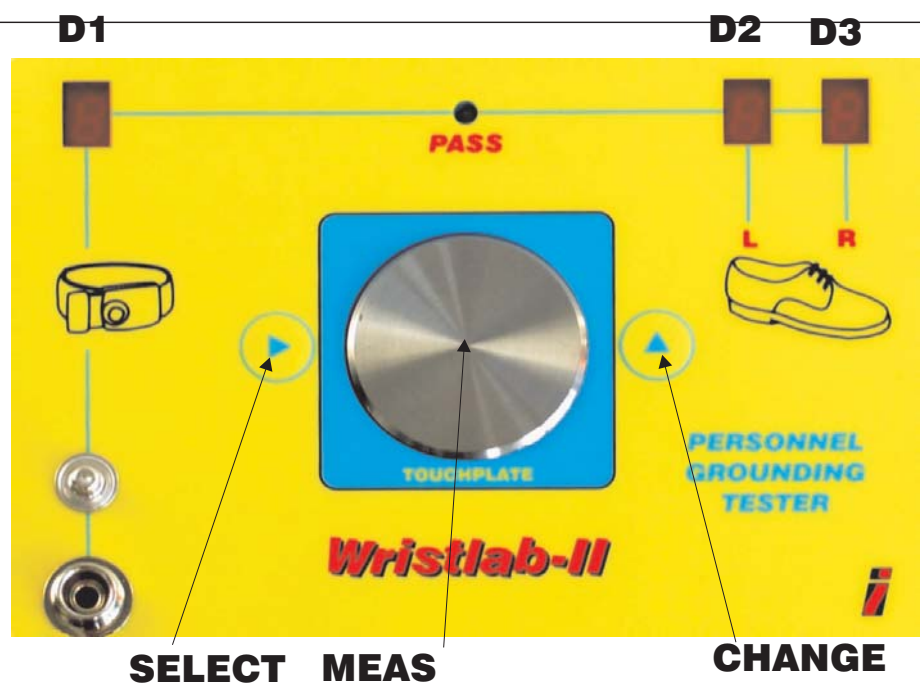
Test station for checking personnel grounding connection of wrist straps and footwear, according to the IEC 61340-5-1.

Power: 9V battery (included)
 External Power DC 9V/100mA, jack 2,1mm
 Wrist strap inputs: 10mm stud, 4mm stud, 4mm banana
 Wrist strap lower-upper limits: 0/750K Ω (selectable)- 35M Ω
 Footwear lower.limit.(single shoe): 0/100K Ω (selectable)
 Footwear upper limit.(single shoe): 35/70/100M Ω (sel.) for mod.9264.960
 1G Ω for mod.9264.960.1G
 Footwear lower.limit (serial): 0/200K Ω (selectable)
 Footwear upper limit (serial): 70/140/200M Ω (selectable)
 Limit tolerance: 10%
 Test voltage: 50V/100V (selectable) $\pm$ 10%
 Relay output: max.60V - 1A - 50VA
 Dimensions: 156x110x34mm
 Weight: 340g



9264.950 Personnel Grounding Test Station wall mounted including:
 Wristlab-II instrument, footplate, yellow panel.and ISO9000 Traceable certificate
9264.950.1G Personnel Grounding Test Station wall mounted including:
 Wristlab-II instrument, footplate(1G Ω), yellow panel, ISO9000 Traceable certificate
9264.952 Personnel Grounding Test Station with Stand-Up support
9264.952.1G Personnel Grounding Test Station with Stand-Up support
 Footwear upper limit: 1G Ω
9264.960 Wristlab-II instrument
9264.960.1G Wristlab-II instrument, Footwear upper limit: 1G Ω

PANEL

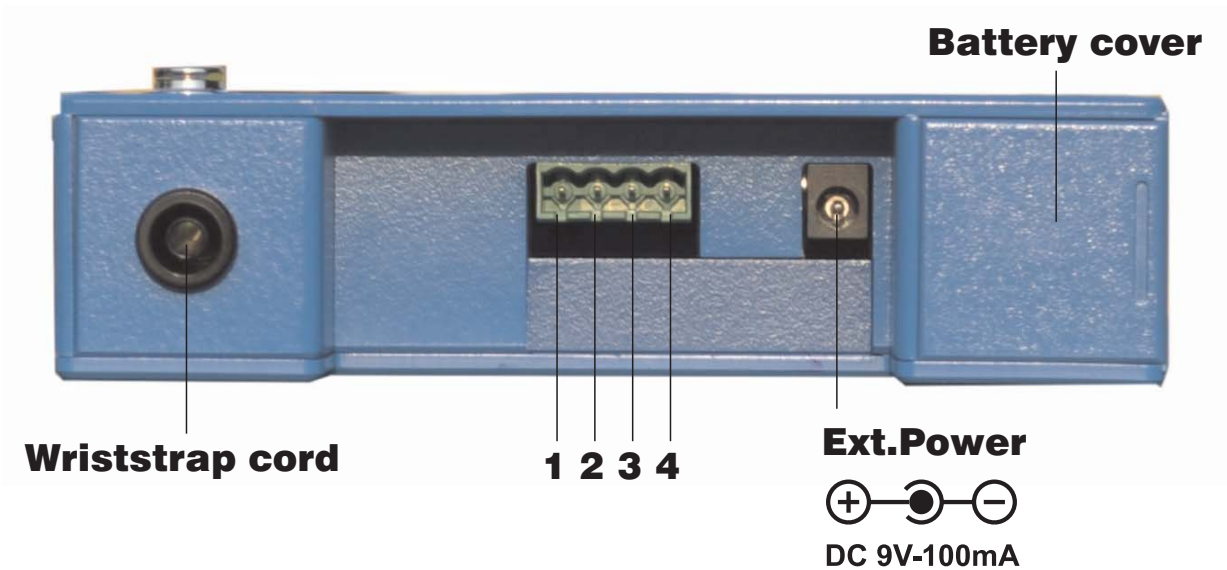


MEASURE metallic pushbutton for the measure
SELECT configuration pushbutton, used to select the parameter to change
CHANGE configuration pushbutton, used to change the parameter value

D1..... displays the result of the measure for the wrist strap
D2..... displays the result of the measure for the left footwear
D3..... displays the result of the measure for the right footwear

Green Led . . . lights up if all the points of the measure are inside the thresholds

INPUT/OUTPUT



1 (OUT) Normally open relay contact
2 (OUT) Normally open relay contact
3 (IN) Metal plate for the measurement of the left footwear
4 (IN) Metal plate for the measurement of the right footwear

OPERATIONS

Four testing modes settable from the keyboard:

- 1 Simultaneous measurement of wrist strap and footwears.
- 2 Wrist strap only measurement
- 3 Footwears only measurement
- HF** HandsFree mode (if the serial measure of the two footwears pass the test then the internal relay enables the gate to the EPA area)

In Handfree mode the instrument performs only the measure of the footwears (2 points), but continuously and without the need for the operator to press MEAS. This mode is useful because if you connect the output relay of the instrument at the opening of a turnstile you can create an automated access of the EPA, only to operators whose footwears are compliant.

TESTING WRIST STRAP ONLY (Mode 1)

You must first configure the instrument to work in mode 1 (see page 7)

To measure:

- 1) Connect the wrist strap to the instrument using the 10mm stud, the 4mm stud or the 4mm banana.
- 2) Press the **MEAS** metal plate, D1 will show "1"
- 3) Release when the instrument displays the result.

TESTING FOOTWEAR ONLY (Mode 2)

You must first configure the instrument to work in mode 2 (see page 7)

A dual foot plate must be connected to the screw terminals of the instrument

To measure:

- 1) Stand with your feet on the foot plate
- 2) Press the **MEAS** metal plate, D2 and D3 will show "2 2"
- 3) Release when the instrument displays the result.

TESTING WRIST STRAP AND FOOTWEARS TOGETHER (Mode 3)

You must first configure the instrument to work in mode 3 (see page 7)

A dual foot plate must be connected to the screw terminals of the instrument

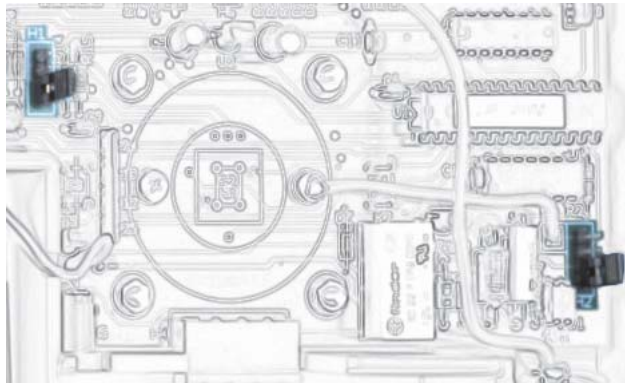
To measure:

- 1) Connect the wrist strap to the instrument using the 10mm stud, the 4mm stud or the 4mm banana.
- 2) Stand with your feet on the foot plate
- 3) Press the **MEAS** metal plate D1,D2 and D3 will show "3" "3 3"
- 4) Release when the instrument displays the result.

TESTING HANDFREE (Mode HF)

You must first configure the instrument to work in mode 1 (see page 7)

Open the back of the instrument and position at the bottom the jumpers of the connectors H1 and H2 as in the figure:



A dual foot plate must be connected to the screw terminals of the instrument.
Insert the external power adaptor: DC 9V/100mA, jack 2,1mm

ATTENTION: REMOVE THE 9V BATTERY

To measure:

- 1) Stand with your feet on the foot plate
- 2) Wait for the instrument to perform the measurement (PASS signaled with a beep)"
- 3) If the relay is enabled you will have the opening of the door or turnstile.

TEST RESULTS

H = Error: measuring point above the upper threshold

L = Error: measuring point below the lower threshold

Green Led ON = Test passed

BATTERY REPLACEMENT

When "L bt " lights up it is necessary to replace the battery.

Open the battery door and replace the 9V battery.

ATTENTION:

IF THE EXTERNAL POWER SUPPLY IS USED REMOVE THE INTERNAL 9V BATTERY

SETTINGS

To enter the parameter configuration procedure:

Keep pressing the SELECT and CHANGE pushbuttons and then press MEAS

SELECT pushbutton:

The number on the D1 corresponds to the parameter number to be displayed.

By pressing **RIGHT** the next parameter will be displayed.

Display, check and/or modify all 7 parameters , and then press **RIGHT** once again for exit.

CHANGE pushbutton:

The D2 and D3 display the value stored in memory, Press **UP** until the desired value is reached.

D1	D2 e D3	Description
1	"1"	Measuring wrist strap only (1 point)
	"2"	Measuring footwears only (2 points)
	"3"	Measuring wrist strap and footwears together (3 points)
	"HF"	HandFree
2	"H"	Measuring voltage = 100V
	"L"	Measuring voltage = 50V
3 Note 3	"1"	Upper limit for single footwear = 10M Ω
	"3"	Upper limit for single footwear = 35M Ω
	"7"	Upper limit for single footwear = 70M Ω
	"10"	Upper limit for single footwear = 100M Ω
	"20"	Upper limit for single footwear = 200M Ω
4	"1"	Upper limit for wrist strap = 10M Ω
	"3"	Upper limit for wrist strap = 35M Ω
5	"0"	Lower limit for single footwear = 0 Ω
	"10"	Lower limit for single footwear = 100K Ω
6	"0"	Lower limit for wrist strap = 0 Ω
	"75"	Lower limit for wrist strap = 750k Ω
7	"in"	Buzzer active if all measurement points are within the thresholds
	"ou"	Buzzer active if at least a measuring point is outside
	"of"	Buzzer not enabled
8	"en"	Relay enabled (for setting the Relay Action Time Delay read Note 4)
	"di"	Relay disabled

Note 1: Bold indicates the factory settings.

Note 2: If the instrument has been set previously in handfree mode to enter configuration mode parameter you must remove the power and then hold down the SELECT and CHANGE keys , then restore the power supply.

Note 3: this setting has been hidden in the model 9264.960.1G

Note 4: Relay Action Time Delay Setting procedure:

- go to step 8 and select "en"
- keep pressed "MEAS" for about 3 seconds, the delay time of the relay will be displayed in the 2 digits at the right.
- "05" is the default value (250msec)
- press "CHANGE" until the desired value will be reached (MAX.99 = 5 sec)