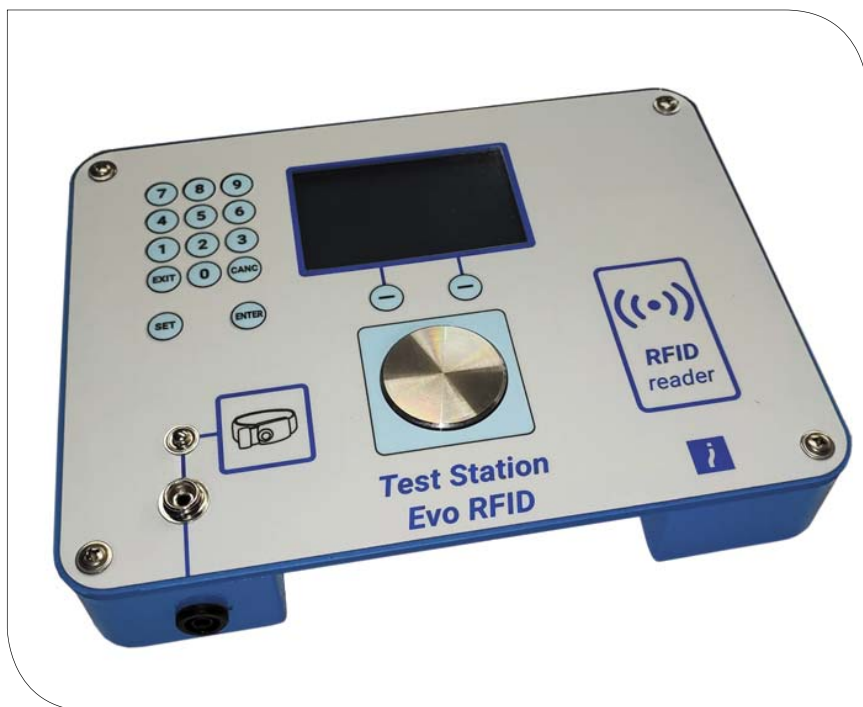


Test Station RFID



Instruction Manual

Model 9264.929 / 9264.929M



EC CONFORMITY

Units 9264.929 and 9264.929M, conforms to EC directives: EMC - 2014/3/CE and LVD - 2014/35/CE, the following harmonized standards are in use EN 60204-1, 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.

ATTENTION: Dangerous voltage is present inside the unit.

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 measuring and checking personnel grounding connection of wriststraps and footwears, according to the IEC 61340-5-1.

The instrument includes:

- RFid recognition system
- Datalogger

The instrument's datalogger is accessible via LAN (Ethernet connection with TCP/IP and static IP) to download all data related to access to the EPA by operators.

Power Supply 9-12V_{dc} 1A (power supply included)

Connectors

External Power: jack 5.5/2.1mm
Wrist strap inputs: 10mm stud, 4mm stud, 4mm banana
LAN connector: RJ45
Footwear inputs and Door
opener: 4 way Phoenix connector

Measuring ranges

Wrist strap: 50K Ω - 2G Ω
Footwear - each shoe: 50K Ω - 2G Ω (Hand Free mode)
Footwear - in series: 100K Ω - 2G Ω
Measuring accuracy : 10%

Test Voltage: 50V/100V(selectable) +-10%
Relay output: max.60V - 1A - 50VA
Recognition: 200 users, each of them recognizable by RFid Card or
ID and Password
Recognition speed: 1.5 sec
Datalogger: Last 10'000 accesses to the EPA area are stored
Display: LCD graphic display, 160x104pixel with backlight
Dimensions: 225x168x38mm
Weight: 650g

Software

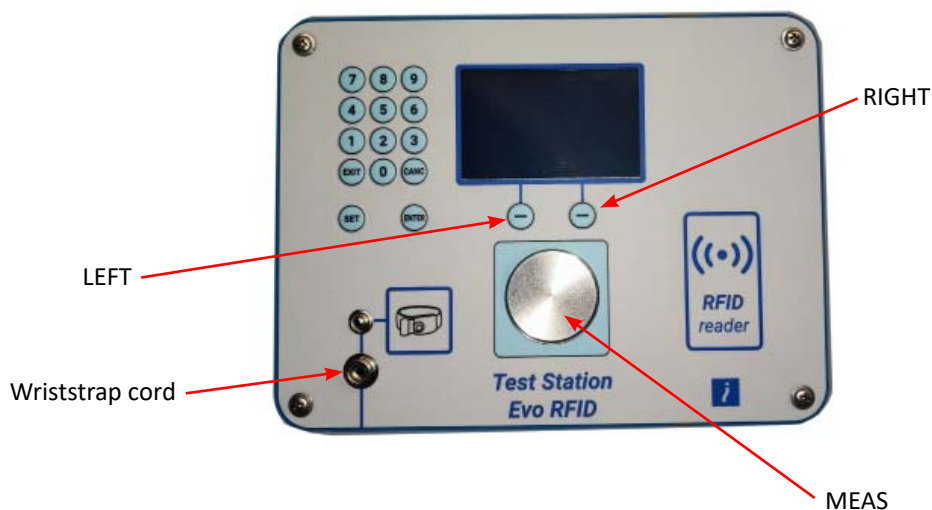
TestStation EVO manager software is included.

The software is compatible with Windows 10/11

PRODUCT CODE

9264.929	Test Station RFid ETHERNET (125KHz)
9264.929M	Test Station RFid ETHERNET (13,56MHz)
9264.931	Test Station RFid ETHERNET (125KHz), wall mounting with footplate
9264.931M	Test Station RFid ETHERNET (13,56MHz), wall mounting with footplate
9264.924	Test Station RFid ETHERNET (125KHz), stand-up version with footplate
9264.924M	Test Station RFid ETHERNET (13,56MHz), stand-up version with footplate
9264.927	Instrument recalibration (ISO9000 Traceable Calibration Report is supplied)

CONTROL PANEL

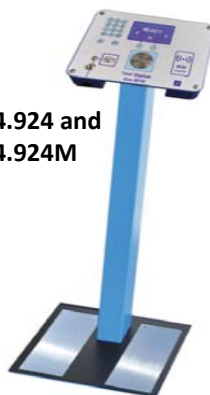


MEAS	Metallic pushbutton for the measure
0-9	Keys for data entry
EXIT	Exit from recognition procedure or administrator menu
CANC	Cancel the last data entry
SET	To view stat page, to enter in administrator menu and to acquire user's RFid Card
ENTER	To enter in the administrator menu
LEFT	Move to previous page of the administrator menu or answer to questions.
RIGHT	Move to next page of the administrator menu or confirmation.

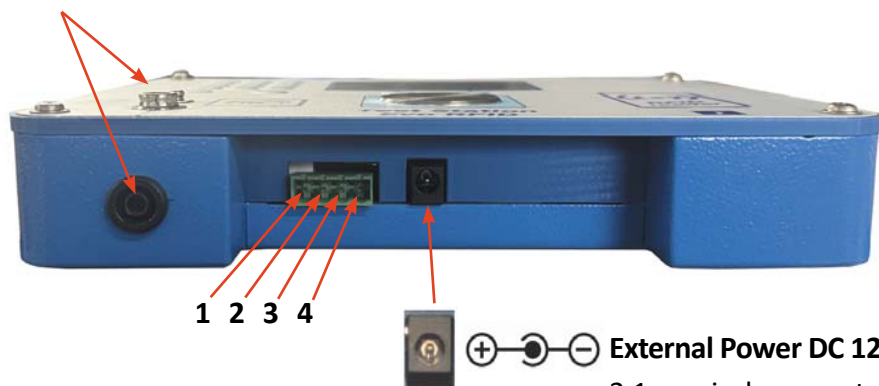
**9264.931 and
9264.931M**
Wrist-strap
not included



**9264.924 and
9264.924M**



Wriststrap cord



1 2 3 4



External Power DC 12V:
2,1 mm jack connector

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

CONFIGURATION (only for the administrator)

Run the program

Copy the file “Test Station EVO Manager.exe” from the USB Key to a directory on your PC.
No installation is required, just run the program to be operational.

Config Section: allows you to change the settings (users, parameters, etc.)

Datalogger Section: allows you to view the results of the tests performed by the Test Station

File Section

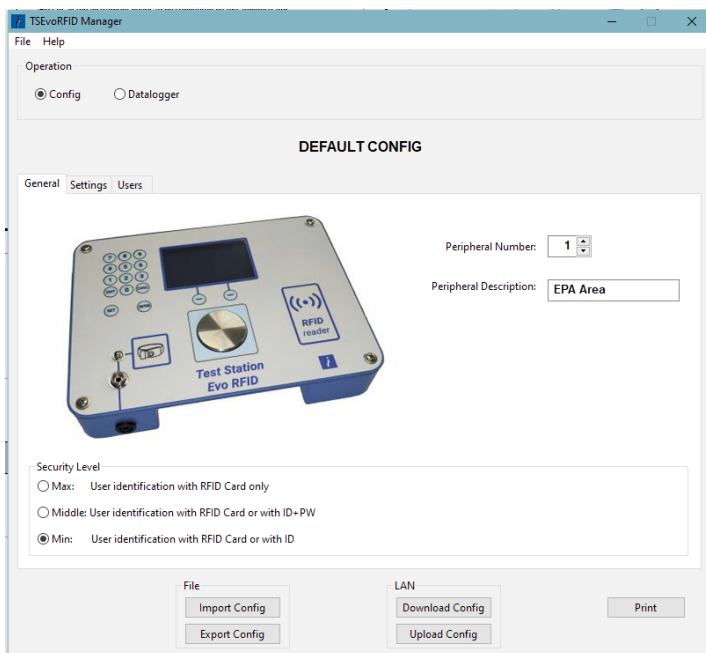
[Export Config]: allows you to save the recorded parameters (users, parameters, etc.) in a text file

[Import Config]: allows you to import previously recorded parameters from a text file

LAN Section

[Download Config]: allows you to download the parameters stored in the Test Station

[Upload Config]: allows you to upload the set or modified parameters to the Test Station via the program interface

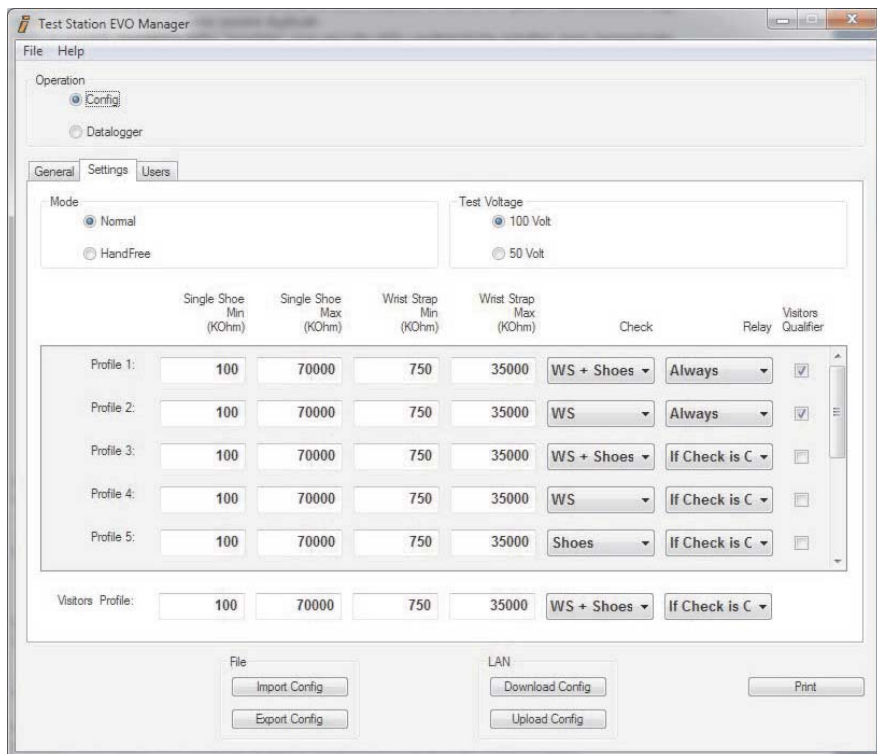


Tab “General”

In the “General” tab you can set the following fields:

- a) Peripheral number: it's a unique number ID (from 1 to 100) that identify the TestStation. It's possible to use till 100 Test Station in a factory and “merge” the data collected from them.
- b) Peripheral description: It's a mnemonic description associated to the peripheral number
- c) Security level: There are 3 security level that describes how users are recognized.

Tab “Settings”



Mode:

- In Normal mode the Test Station works using MEAS, the metallic pushbutton, for the measure.
- In the HandFree mode the users don't need to use the MEAS pushbutton because the measure is executed only in the footwears applying the test voltage on the right shoe and measuring the FOOTWEARS L+R resistance.

IMPORTANT:

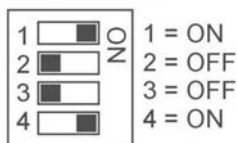
the mode of operation must be set also in the internal dip-switch.

Open the back of the instrument and set correctly the dip-switch.

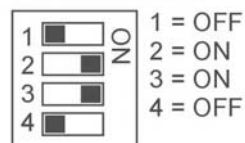
The instrument is supplied in “Normal” mode which is the most used.

Switch the dip-switch only if you want to work in “HandFree” mode

Normal mode:



HandFree mode:



Test Voltage:

is the voltage applied on the MEAS pushbutton (Normal mode) or the right footplate (HandFree mode) for measuring personnel grounding. It can be set at 50V or 100V and there isn't any risk for the users because there is current protection.

There are 10 profiles that can be associated to every active user.

For each profile are defined the:

- thresholds of the measure
 - the check operation
 - the relay action
 - if the user is a visitor qualifier that has the permission to allow visitor to enter in the EPA area.
- Visitors also have their own profile..

Tab “Users”

Active	ID	Name	Profile	User Code
<input checked="" type="checkbox"/>	000	Jack D.	Profile 1	000656
<input checked="" type="checkbox"/>	001	Thomas F.	Profile 2	001761
<input checked="" type="checkbox"/>	002	Grace O.	Profile 3	002879
<input checked="" type="checkbox"/>	003	Joshua T.	Profile 3	003987
<input checked="" type="checkbox"/>	004	Harry B.	Profile 4	004092
<input checked="" type="checkbox"/>	005	Ruby R.	Profile 4	005100
<input checked="" type="checkbox"/>	006	Charlie W.	Profile 4	006658
<input checked="" type="checkbox"/>	007	Daniel P.	Profile 4	007766
<input checked="" type="checkbox"/>	008	Olivia C.	Profile 5	008871
<input checked="" type="checkbox"/>	009	William L.	Profile 5	009989

From: 0 To: 999

Activate Deactivate

File: Import Config Export Config LAN: Download Config Upload Config Print

The instrument recognizes up to 200 users, each of them is associated to a previous defined profile.

NOTE: Do not overwrite a user. We recommend that you make a user “Inactive” instead of deleting or overwriting it. An “Inactive” user is recognized by the tool, but cannot do anything. This way you can preserve the integrity of the data for the eventual reactivation of a deactivated user.

1) Power the instrument and enter in the “Administrator menu”

Power the instrument and when the TestStation is ready keep pressing the SET button and then press ENTER

The administrator password will be asked. “123456” is the default Administrator password
IMPORTANT: change immediately the administrator password because 123456 it's too simple.

After inserted you are in the administrator menu that has 8 pages

1/8: Users To view users and assign them an RFID card

2/8: Admin To set the device number and IP address

3/8: Date/Time To set the date and time

4/8: Password To change the administrator password.

5/8: Contrast To change the LCD contrast.

6/8: Relay Time: To set the output relay closing time

7/8: Logs To delete the logged data

8/6: General To perform “Factory Reset”

Use: **LEFT** to move to the previous page of the administrator menu.

RIGHT to move to the next page of the administrator menu.

2) Set the Peripheral Number and the TCP / IP protocol in the instrument

Go to the “Admin” menu (Page 2/8) and set the Peripheral Number and IP address and Subnet Mask for the TCP / IP protocol previously entered on the PC.

3) Export from the PC to the instrument the configuration file

Set the program on “Config”, press “Upload Config”, enter the IP address and the administrator password of the Test Station and download the new configuration.

NOTE: the default administrator password is “123456”, if it was changed you must insert the new one.

4) Set the date and time

Go to the “Date/Time” (page 3/6) and set the correct date and time.

An internal supercapacitor backup allow the instrument to maintain the correct date and time even after 1 week without power.

5) Assign RFid Card

Go to the “Users” (page 1/8) and use the CANCEL buttons to scroll the users.

Only the active users are visualized. Press SET to store the selected user's RFID card.

A request message will invite you to place the RFID Card on the reader. As soon as the card is read, the display will ask you if you want to add the Card (follow the procedure displayed).

An active user line may end with (*) or with ()

(*) indicates a user with an assigned RFID Card.

() indicates a user without an assigned RFID Card

Press EXIT button to exit from the administrator menu. The configuration file is correctly memorized into the eeprom memory of the instrument.

ACCESS TO THE EPA AREA

Every access to the EPA Area consists in:

- 1) Recognition
- 2) Measuring
- 3) Result

1) Recognition

Every active user with RFid Card can be recognized simply passing th card over the sensor.
In alternative, if the security level of the configuration, is 2 or 3 is possible to digit directly:

- the UserCode that is a 6 digit number (only for security level 2)
- the ID code that is a 3 digit number (only for security level 3)

A beep indicates that a correct recognition was executed.

After a correct recognition if the active user is a visitor qualifier it's possible to press the RIGHT button to allow a Visitor to enter in the EPA Area.

2) Measuring

In Normal mode keep press the MEAS metallic pushbutton to measure wrist-strap and/or shoes , then release the MEAS button when the results of the measure are showed.

In HandFree mode, the measurement starts automatically after the user is recognized, and finally the measurement results are displayed.

3) Results

If the user has passed the test, "PASS" it's written in the center of the display and a beep indicates the good result.

Otherwise "FAIL" it's written in the center of the display and the wrong measures blink.

In every case a new record of the access is added into the internal Datalogger



STAT PAGE



The Stat page is visible when the SET button is pressed.

Active users (*): Users with registered RFid Card who can be recognized by the card reader.
Active users (): Users without registered RFID cards that cannot be recognized by the card reader.

New Record: Number of the access records from the last “Factory Set” or from the last “Download”. This is useful to know when it’s time to collect new records because this number should not exceed the 10000 internal storage record of the instrument’s datalogger, to avoid data lost.

All Record:

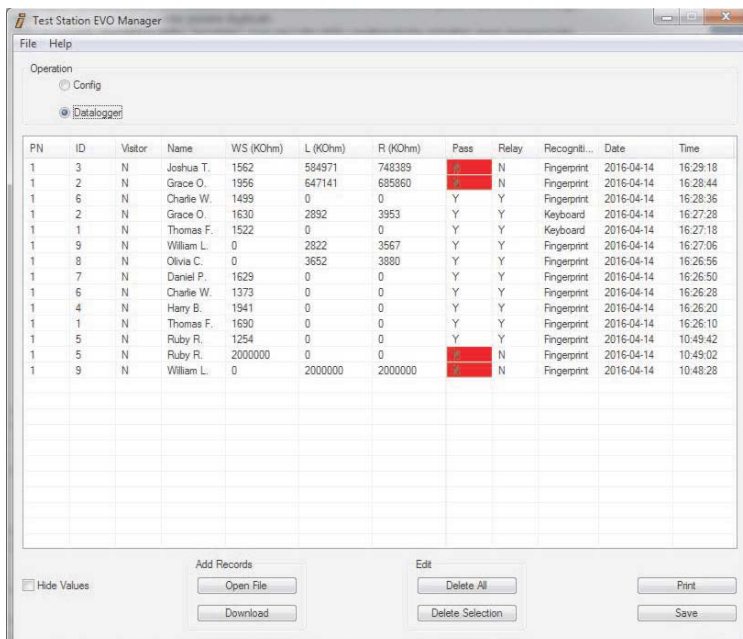
Number of the access records from the last “Factory Set” .

TEST

At any time it’s possible to check the personnel grounding simply pressing the MEAS button. The measures will be showed but no action will be executed (the relay is disabled and no records are added into the internal datalogger) “TEST” it’s written in the center of the display

COLLECT DATA

- Run the “TSEvoRFID_Manager” program on your PC
- Set the program on Datalogger, press “Download”, enter the IP address and the administrator password of the Test Station and download the data.
- A table with data collected will be displayed and can be exported to a file *.txt or *.xls (Microsoft Excel)



The screenshot shows the 'Test Station EVO Manager' application window. The 'Datalogger' tab is selected under the 'Operation' menu. A table displays access records with columns: PN, ID, Visitor, Name, WS (KOhm), L (KOhm), R (KOhm), Pass, Relay, Recognit..., Date, and Time. The table contains 18 rows of data. At the bottom, there are buttons for 'Add Records' (Open File, Download), 'Edit' (Delete All, Delete Selection), 'Print', and 'Save'. A 'Hide Values' checkbox is also present.

PN	ID	Visitor	Name	WS (KOhm)	L (KOhm)	R (KOhm)	Pass	Relay	Recognit...	Date	Time
1	3	N	Joshua T.	1562	584971	748389	N	N	Fingerprint	2016-04-14	16:29:18
1	2	N	Grace O.	1956	647141	685860	N	N	Fingerprint	2016-04-14	16:28:44
1	6	N	Charlie W.	1459	0	0	Y	Y	Fingerprint	2016-04-14	16:28:36
1	2	N	Grace O.	1630	2892	3953	Y	Y	Keyboard	2016-04-14	16:27:28
1	1	N	Thomas F.	1522	0	0	Y	Y	Keyboard	2016-04-14	16:27:18
1	9	N	William L.	0	2822	3567	Y	Y	Fingerprint	2016-04-14	16:27:06
1	8	N	Olivia C.	0	3652	3880	Y	Y	Fingerprint	2016-04-14	16:26:56
1	7	N	Daniel P.	1629	0	0	Y	Y	Fingerprint	2016-04-14	16:26:50
1	6	N	Charlie W.	1373	0	0	Y	Y	Fingerprint	2016-04-14	16:26:28
1	4	N	Harry B.	1941	0	0	Y	Y	Fingerprint	2016-04-14	16:26:20
1	1	N	Thomas F.	1690	0	0	Y	Y	Fingerprint	2016-04-14	16:26:10
1	5	N	Ruby R.	1254	0	0	Y	Y	Fingerprint	2016-04-14	10:49:42
1	5	N	Ruby R.	2000000	0	0	N	N	Fingerprint	2016-04-14	10:49:02
1	9	N	William L.	0	2000000	2000000	N	N	Fingerprint	2016-04-14	10:48:28

FACTORY RESET

To restore the Test Station EVO to it's original system state:

- Power the instrument and enter in the Administrator menu (Keep press SET and then press ENTER. After digit the administrator password)
 - Go to the "General" page (8/8) using the LEFT RIGHT buttons, and press 9.
- Confirm by pressing RIGHT

FACTORY SETTINGS:

Administrator password: 123456

Peripheral number: 1

Mode: Normal Normal

Test Voltage: 100V

Security Level: Low

CHECK: wrist-strap + left footwear + right footwear

Relay action: "if check is OK"

active user 200 ("User 0" to "User 199") each of them is enabled as

Visitor Qualifier

Footwear thresholds: 100K Ω (low) 70M Ω (high)

Wrist strap thresholds: 750K Ω (low) 35M Ω (high)

LCD Contrast: 20

FACTORY SETTINGS:

WARNING: ALL STORED CARDS WILL BE DELETED