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Innovative Measuring station for EPA access

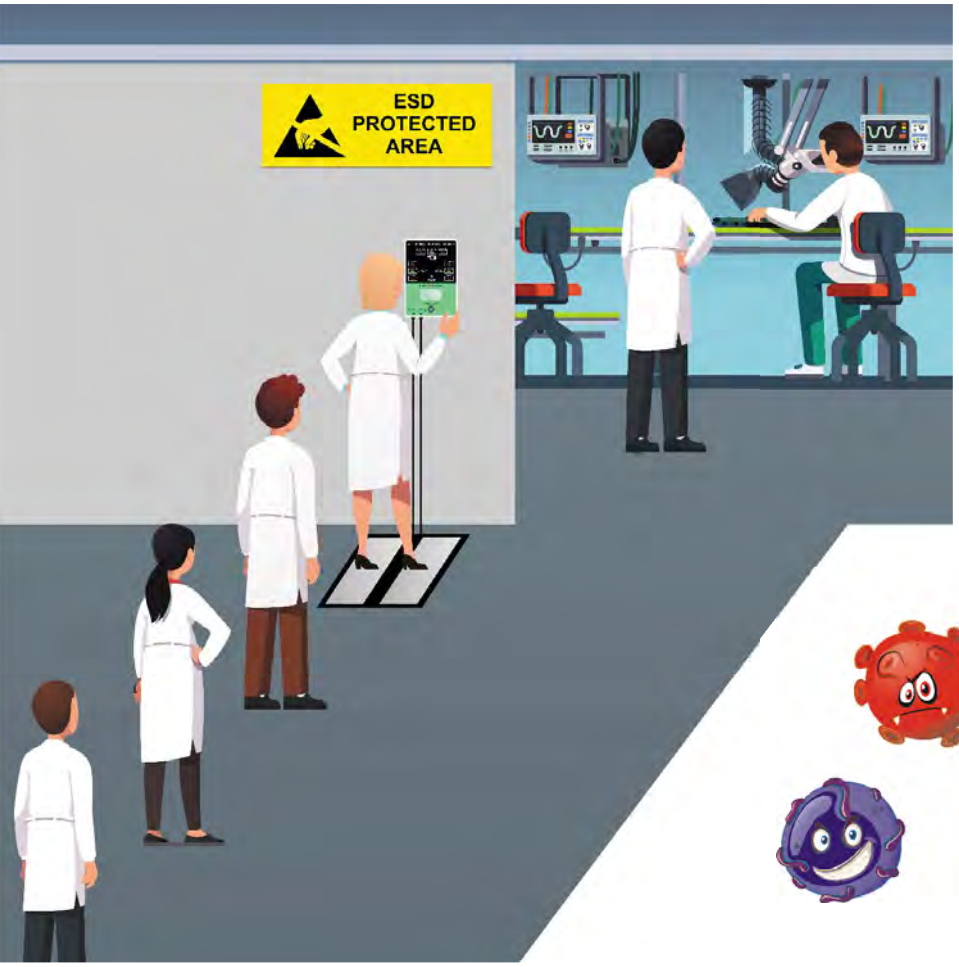
Patent pending

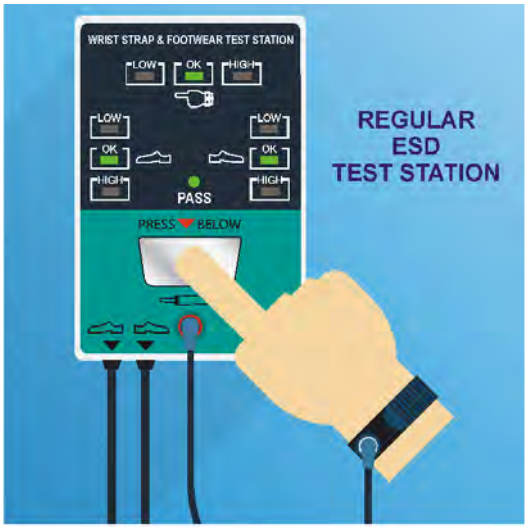
ESD measurements:
- Bracelet
- Footwear
- Bracelet and footwear
- And the new Hands-Free mode

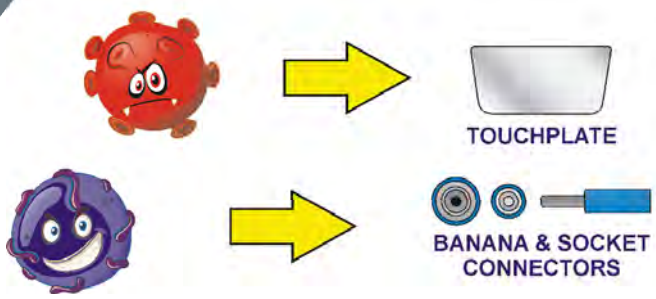
In ordinary ESD measurement stations, the main “access routes” Through which viruses, bacteria and other pathogens spread to other users are:

- The touchplate, meaning the metallic plate where the user places the finger.
- The input connectors for bracelets.

This means that the touchplate and the bracelets after being used, should be sanitised after each user passing.







The Wristlab-Pro station is hygienically safe and does not need constant disinfection between each use: each user has its own personal touchplate and connectors for their bracelet.

20852 code
WRISTLAB-PRO

Normally test stations have four different modes:

- WRISTSTRAP
- FOOTWEAR
- WRISTSTRAP & FOOTWEAR
- HANDS FREE (HF) The touchplate isn't used, the measuring current flows from one foot to the other and the resistance of both feet is summed.

5 measuring modes:

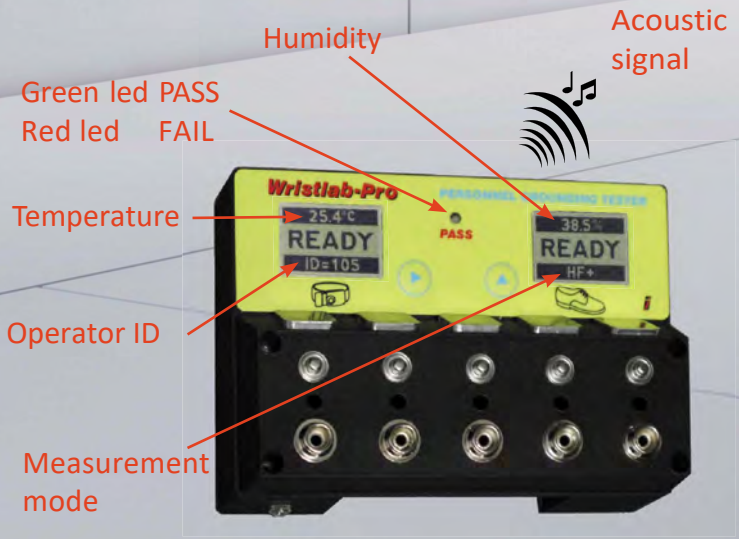
WRISTSTRAP

FOOTWEAR

WRISTSTRAP & FOOTWEAR

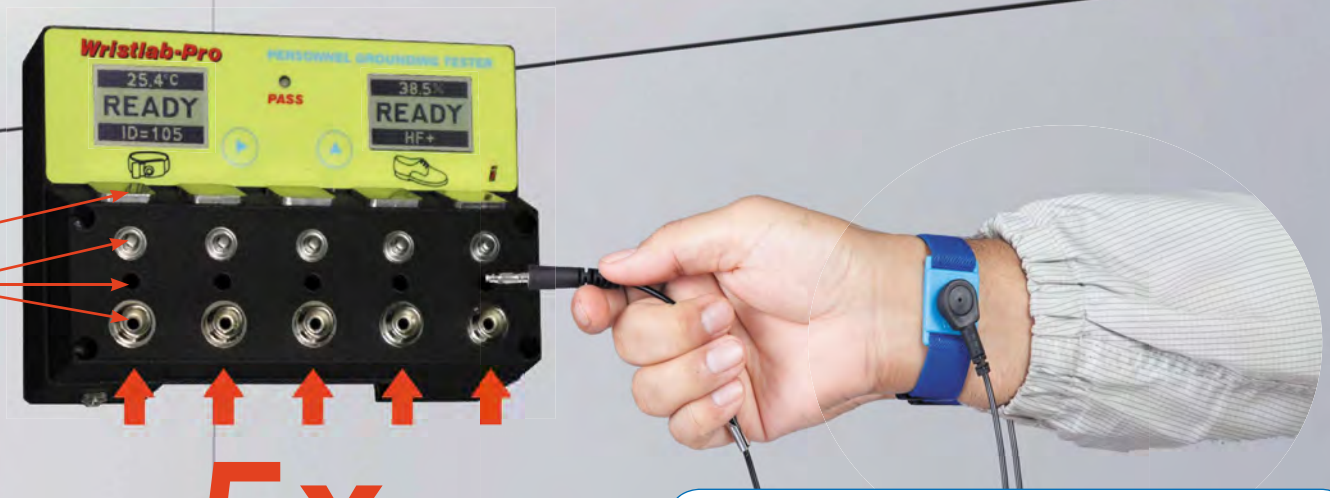
HANDS-FREE (HF)
& THE NEW
HANDS-FREE PLUS (HF+)

The WristLab-Pro introduces an added mode called HANDS FREE PLUS (HF+).
During HF+ the user initially executes the standard footwear test and then decides to either terminate the test or insert the bracelet's connector and touch the touchplate in order to execute a "bracelet to footwear" measurement where the single foot value is displayed. HF+ starts from the need to offer a more flexible solution under the responsibility of the trained user.



The Wristlab-Pro is the simultaneous verification instrumento fr correct grounding of both bracelet and footwear according to IEC 61340-5-1 regulations. The wall anchoring is made through magnetic feet that allow to rapidly detach the station and the possibility to use 9V batteries (not included) allowing it to be portable and easy to calibrate.
The model has the following features:

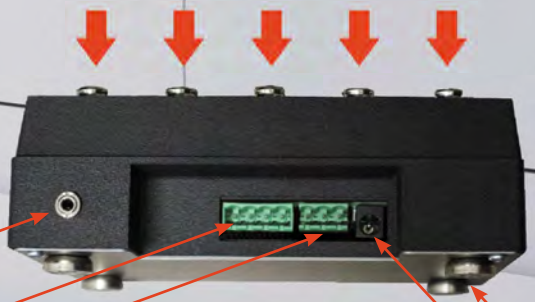
- Extremely clear and intuitive interface. After finishing measurements the left display will show the resistance of the bracelet while the right display the footwear's. If the test is successful the led in the middle will turn green. If the test fails the led will turn red. Different acoustic signals will play based on the outcome.
- An internal thermohygrometer to know RH/T of the environment to evaluate the correct measurement.



5x

Bracelet interface:
5 x (button 4mm, banana 4mm, button 10mm)

Buttons interface
5 x (square stainless steel plates 18x18mm)



Field of measure:
Bracelet 50KΩ ÷ 2GΩ
Footwear (each shoe) 50KΩ ÷ 2GΩ Footwear in series (Hands Free mode) 50KΩ ÷ 2GΩ Limits tollerance: ±10%
Voltage of measure: 50V/100V (selectable) ±10%
Humidity range: from 1 to 95%RH
Resolution: 0.1%RH
Precision: ±2%RH
Temperature range: -20°C ÷ +60°C
Resolution: 0.1°C
Precision: ±1°C
Display: 2 x (LCD , 102x64pixel, 34x23mm)
Measures: 156x110x57mm
Power supply: DC 9V/200mA, jack 2,1mm
(with AC adapter included) Power supply: 9V batteries (not included)
Weight: 430g

Facial recognition module:
3 way phoenix connector

Platform interface for footwear measurement and for opening doors (max.60V - 1A - 50VA):
4 way phoenix connector Pin 1-2

Expansion interface module:
Jack connector 3,5 mm

Quick attachment of wall mount:
4 permanent magnets

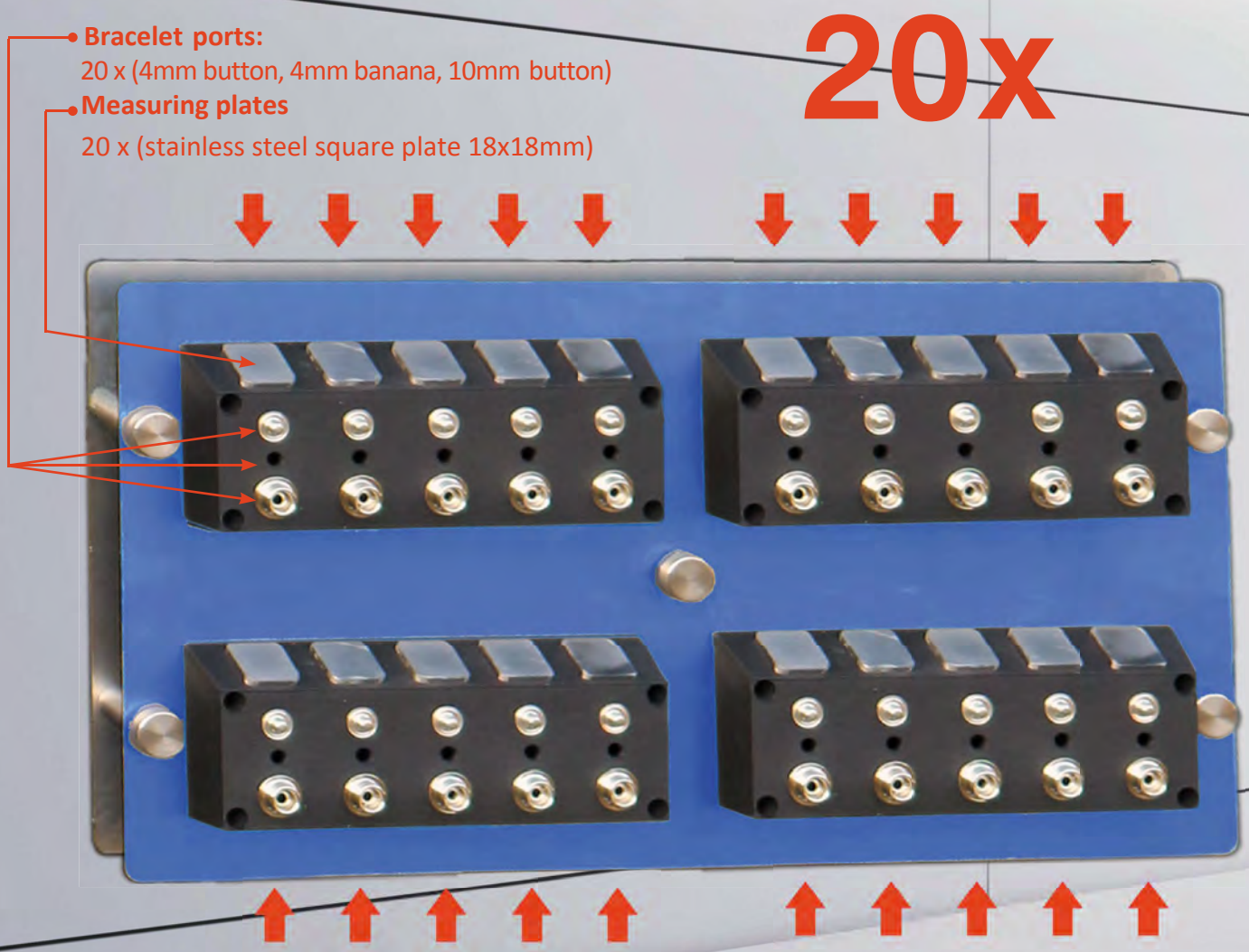
External power supply DC 9V/200mA:
jack connector 2,1mm

EXPANSION MODULE for **WristLab-Pro**

The expansion units are used to increase the number of users by 20 units. For example by adding 3 modules it means there will be up to 65 extra users that might be reserved for the comfort of external users.

Each user slot is composed of:

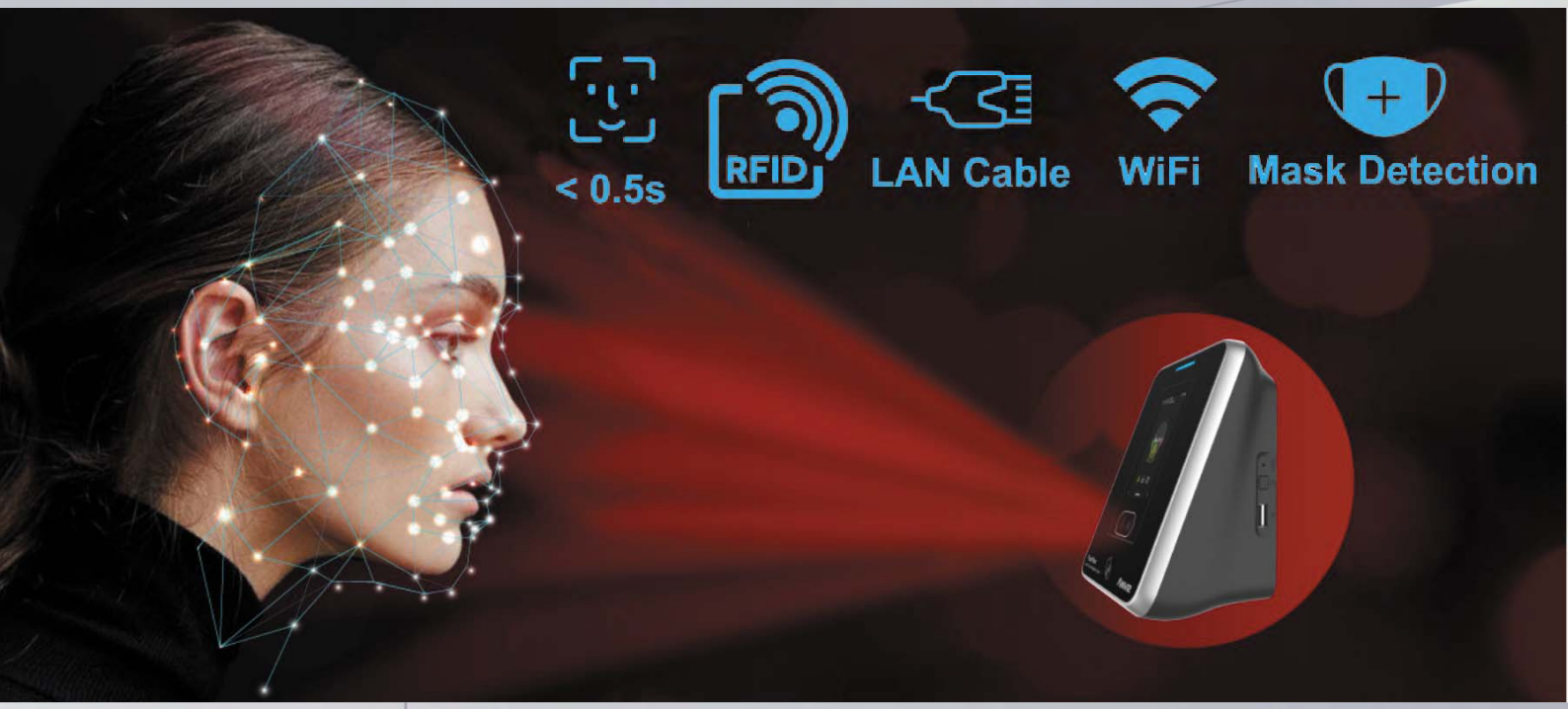
- Stainless steel touchplate 18x18mm
- 4mm button bracelet connection port
- 4mm Banana connection port
- 10mm button to connect to the bracelet



Total measures: 368mm x 200mm

Elegant blue panels where there's enough space on each slot to put a sticker with the name or the identificative number of the associated user.
They're distanced from the wall in order that connection cables can be passed and hidden effectively.

FACIAL RECOGNITION MODULE FOR **WristLab-Pro**



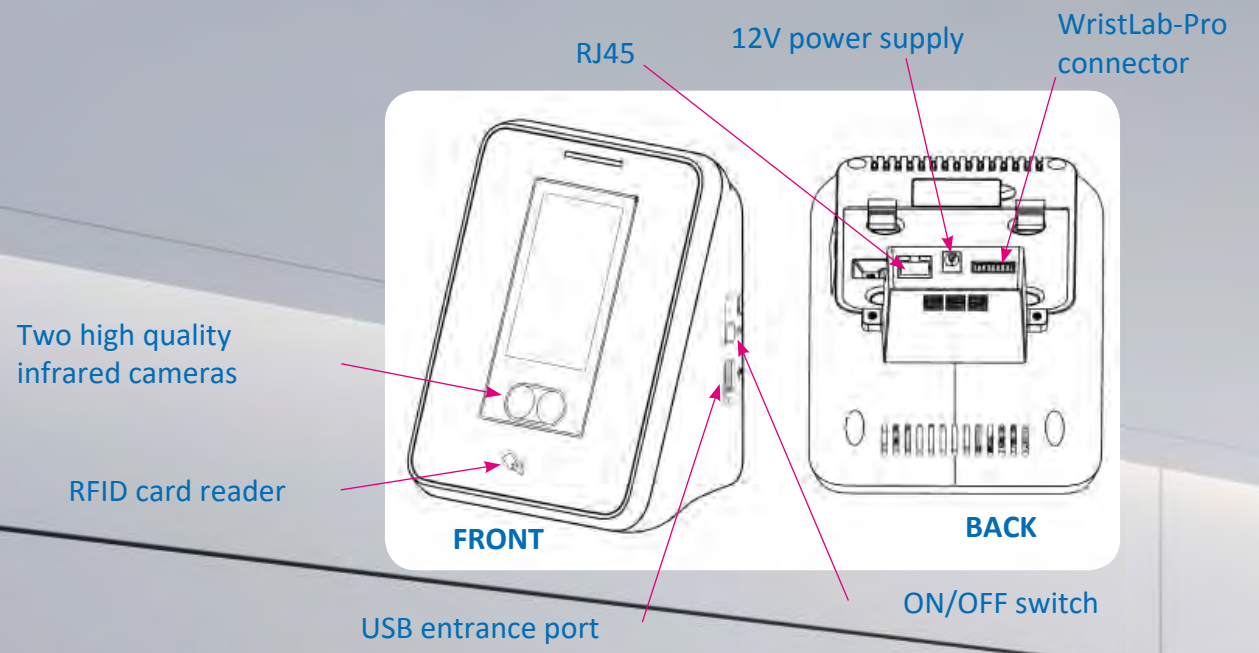
Two high definition infrared videocameras to identify the user. Infrared allows to correctly identify the user's face even with low light level.

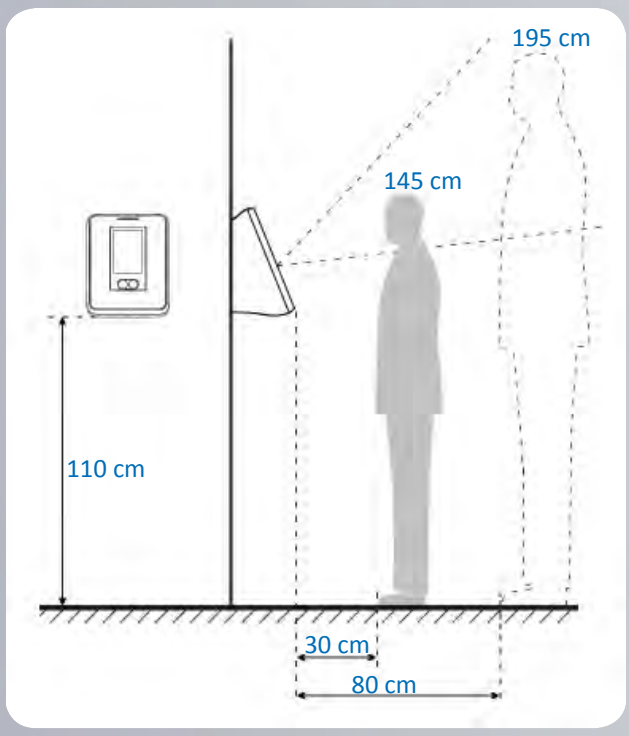
Face recognition for all users

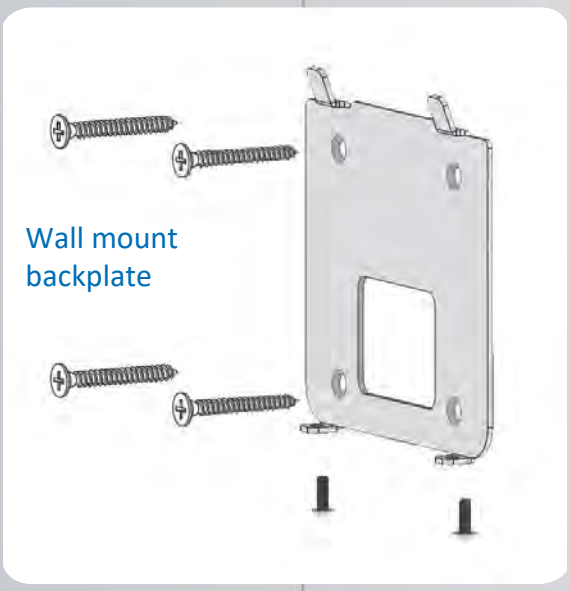
complies to (UE) 2016/679 (G.D.P.R.) regulations:
uses a special algorithm to encrypt biometric data irreversibly.

FAR ≤ 0,1%.
Time for identification: tipically 0.5s
Supported cards: EM card, Mifare card
Display 3.2" HD TFT Touch Screen (capacitative).
Exits: TCP/IP, integrated Wi-fi, USB for saving biometric data.
CPU: Dual-core 1.0GHz.
Power supply: DC 12V
Measures (L x A x P): 124*155*92 mm.
Maximum number of users: 220, each one identifiable with face, card or password. Each user is associated with one of ten different profiles.

These 10 profiles, completely configurable, contains different info like: Type of measure (Wriststrap, Shoes, Wriststrap & Shoes, Hands Free, Hands Free+), minimum and maximum values (between 50KΩ and 2GΩ), comand options for relay output etc...

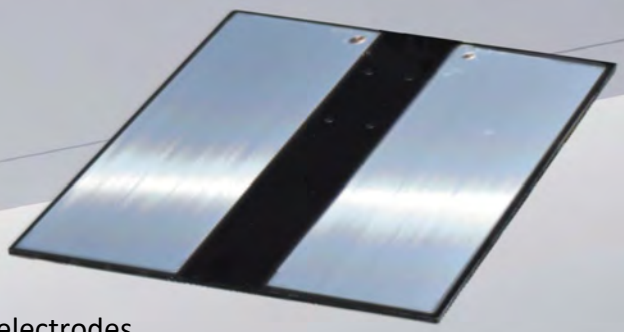






The software EPA ACCESS MANAGER is included in the module **code 20855.**
This software, with all of its future updates, it's freeware and works on PC with Windows XP/7/8/10 OS.
Each facial recognition module can comunicate with one or more EPA ACCESS MANAGER apps on one or more PCs. This allows to have different test stations in a single company, all at the same time by different administrators.
All operations done by the software happen in the background of the module. It will be able to still process access requests even while downloading the access report from PCs. To put it simply, both this unit and the Wristlab Pro work even during disconnections from the LAN and do not need any type of serverside software.

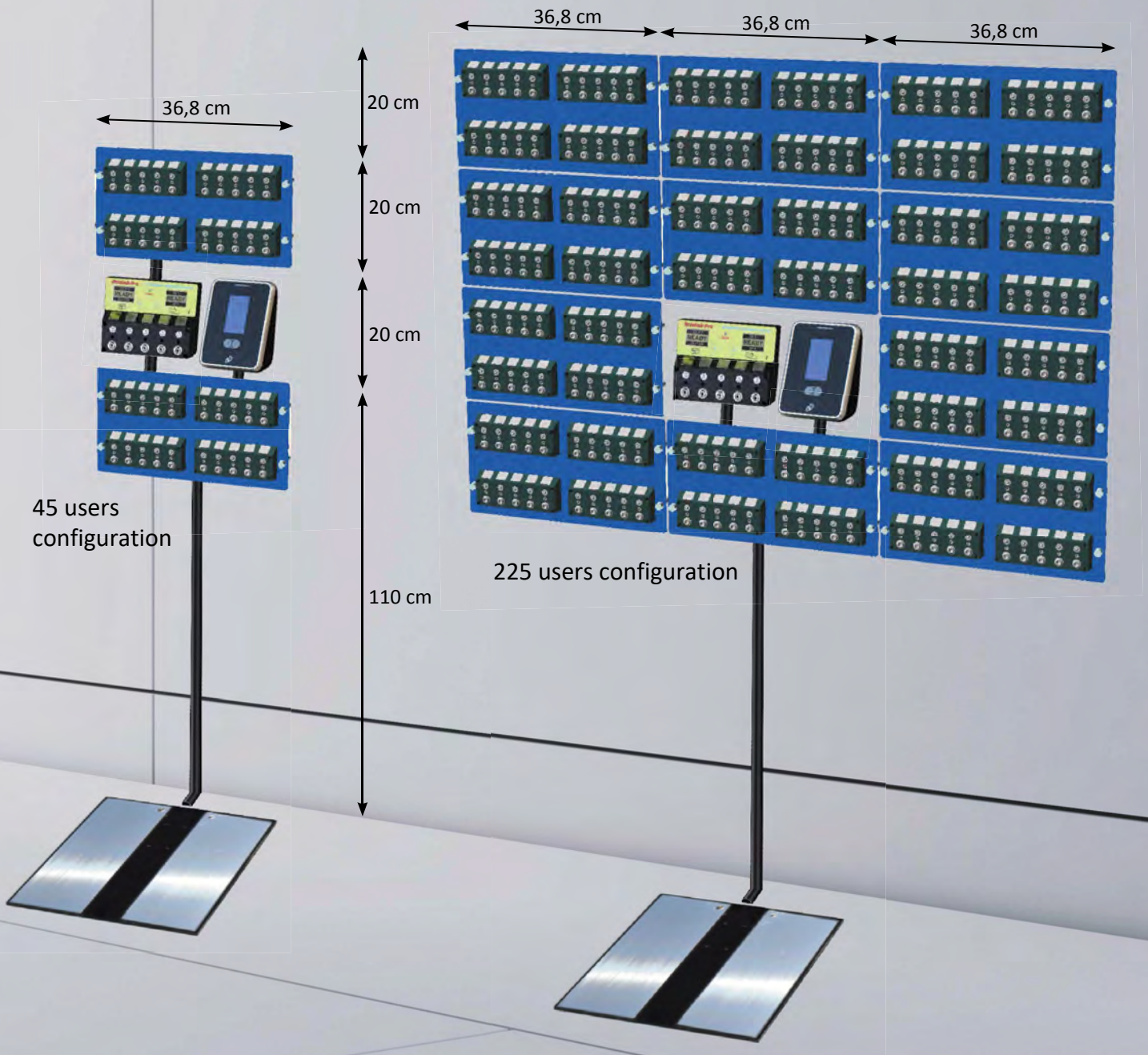
PLATFORM FOR MEASURING FOOTWEAR **WristLab-Pro**



Insulated platform with stainless steel electrodes

- Total measures 390 x 390 mm
- Single electrode measures
  147 x 377 mm

POSSIBLE CONFIGURATIONS OF A WRISTLAB PRO



CONTACT US

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