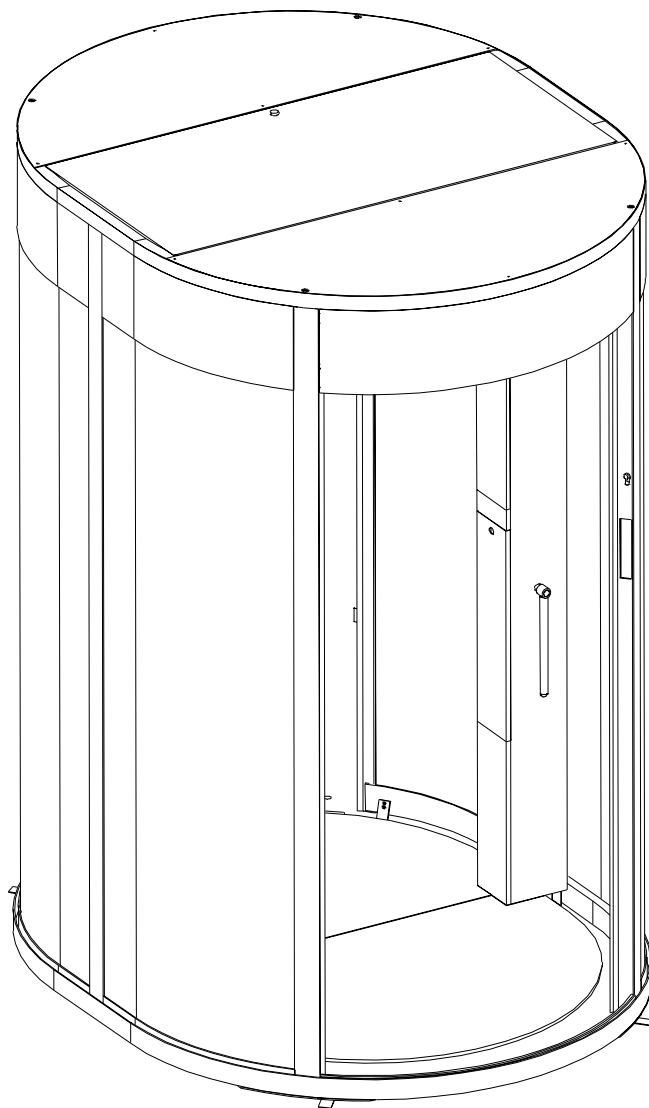


COMMO GATE



USE HANDBOOK

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Saima Sicurezza S.p.A. is a company belonging to the Saima Group born in 1977. Since 1997 the company has obtained the UNI EN ISO 9001 certification.

DECLARATION OF CONFORMITY : Saima Sicurezza S.p.A. declares that the **COMMO GATE** booth identifiable by its identification at the bottom, conforms with the UNI 8612 - CEE 89/106 - CEE 89/336 - CEE 73/23 directives when applicable.

Thanks you for buying our products and for the trust you have shown in us. We would like to remind you that this manual is an integral part of the ANTI-ROBBERY BOOTH and it is necessary to follow what described. If the Booth is still unpacked, please read the "System installation" chapter.

This manual contains important information on safety use and maintenance for the user.

No part of this manual can be reproduced in any form or use, mechanical or electronic, without written authorization of SAIMA SICUREZZA Spa.

Drawings and descriptions in this manual are subject to variations and modifications without previous notice.

Model

Function

Registration number

Production department Saima Sicurezza S.p.A. Indicatore AREZZO.

Date

Tested by

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INTRODUCTION

In this manual you will find and maintenance instructions in order to obtain the best results and a high efficiency working from the booth. We suggest you carefully read the manual's contents before using the booth. Information on repairs, adjustments and settings that are different from those contained in the technical manuals must be requested at Saima Sicurezza S.p.A.

Keep this manual in a safe place for future consultation.

Guarantee

The booth is guaranteed for 12 months after the final quality control.

We are at your disposal for any type of assistance and we would like to remind you that the guarantee will be void should the manual's instructions not be respected.

The guarantee will be void should the user fail to follow the manual's instruction's or should the user make modifications without written authorisation by the maker and/or use spare parts that are not original.

SAIMA SICUREZZA Spa reserves the right to make all the necessary modifications in order to improve the booth's performance.

Destination

The anti-robbery booth must be used exclusively as a security door that controls accesses.

Limitations of use.

The booth must be used only for what it has been expressly conceived for and with all the limitations indicated. Any other use is considered wrong and unsuitable.

The maker cannot be considered responsible for any damages deriving from an improper, erroneous or unreasonable use.

Identification

The plate here represented, contains all the information regarding the system's functions and identification.

The plate can be found on the booth's roof near the inspection panel.

When asking for assistance please give the registration number that you will find on the plate.

SAIMA		CE	
SICUREZZA S.P.A. INDICATORE (AR) ITALIA Tel. 0575-9291			
MATRICOLA	<input type="text"/>	TENSIONE [V]	<input type="text"/>
ANNO	<input type="text"/>	FREQUENZA [Hz]	<input type="text"/>
TIPO	<input type="text"/>	POTENZA [kW]	<input type="text"/>
MASSA [Kg]	<input type="text"/>	SPINTA MAX [N]	<input type="text"/>

General security norms

Maintenance is allowed only to qualified technicians that have been trained and authorised. The maker is not liable for any tampering or modifications that have not been authorised by the maker who is free from any damages that might have occurred from such actions. The removal or tampering of the security devices is a violation of the European norms on security.

We recommend to use original spare parts only. Our machines are made to accept only original spare parts. The system must be installed only by qualified technicians respecting the instructions that follow here under. Make sure that no dangerous situations arise while operating the system, stop the system immediately should there be working irregularities and call Saima Sicurezza Spa. service.

All maintenance on the electrical system even if minor, must be done by a qualified professional technician.

Safety devices

- System's manual unlock in case of total absence of power;
- Internal emergency button;
- Inaccessibility of the mechanical movement;
- Sensor devices that re-open the door should there be a physical contact while closing;
- Electronic torque adjuster that maintains the door's push power;
- Electrical isolation;
- Safety transformer;
- Operating peripherals in SELV.

We would like to remind the security norms that must be followed by the client; system grounding, life saver devices.

Maintenance

The booth has been made in conformity to the acting norms and the European community's legislation disposition have been kept in mind.

We recommend that the system is checked every six months only by a qualified technician.

During the programmed maintenance, all of the check up steps must be followed as indicated in the system's book (see System book-maintenance).

FUNCTION AND USE

Technical presentation

This anti-robbery booth is equipped with a special device that allows you to verify if there are objects or people inside the transit area. On request it can be equipped with Biometrical systems that recognises people. The information on the dimensions are reported in fig.4.

N.B. the object detection system concerns only the booth's internal space. Therefore, it is possible to anchor the booth to lateral structures (frame) without compromising its function.

The door's structure is made with steel and it has been re-enforced with thick round-tubes. The paint is made with special materials that give the final finish great resistance to environmental agents and makes it shock proof. The transit area parts are made with highly resistant materials as the door's frame (doors have bullet proof glass).

The metal detector is placed inside the door's entrance lateral walls.

The metal detector's panel and management logic are placed on the top part of the booth and can be easily inspected. A plastic lid covers the top of this part from dust.

The door's movement is electro-mechanical and maintained with a constant power supply. Besides the photocells that protect you from the door, the motors' underfeeding guarantees an extra protection against accidents.

The booth is also equipped with:

- intercom system that connects the outside with the commanding console. (console is not supplied by Saima);
- vocal message with one or more messages (on request);
- push button panel with signalling leds (red, yellow and green);
- mechanical key that switches the booth on and for night closing;
- internal system to unlock the door.

If the night closing key is not used is a possibility that the doors will remain unlocked, therefore they can be opened manually should the batteries run down.

Entrance/Exit procedure

Turning on the booth

The booth can be turned on with the control console keys.

Use the mechanic or electric keys for the first entrance and the mechanic key for the last exit.

When the booth is turned on, the door's first opening cycle will be executed automatically; it has to be used for the entrance of the first person. For safety reasons, also the first passage is protected by the metal detector.

Standard transit

After turning on the booth, make sure that the console is programmed for the standard transit; it must occur as follows:

- 1) Utilise the badge which is placed beside the transit area and wait until the door opens (by utilising the badge, the metal detector action is forbidden).
- 2) Enter in the booth.
- 3) Wait for the external door to close and the internal one to open.
- 4) Exit from the booth.

Metal Detector alarm (if there is).

Every time somebody tries to transit through the booth with a metal object comparable in weight and dimensions to a weapon, the metal detector's allarm goes off. The alarm condition will activate a special recorded message contained in the voice synthesis that will invite the user to exit and deposit the metal objects in a suitable box.

The first door will stay open, so that the user entering can exit. In this way, it will close and check automatically the transit area, in order to verify the presence of metal objects left inside it.

If the check will be negative, the monobloc resets automatically and it will be ready for a new transit. Otherwise, the external door will continue to open and close, until the object deposited inside will be removed.

Transit with metal objects (if there is the Metal Detector).

To allow the entrance in the protected area to a person with metal objects or weapons (for example, security guards, escorts for valuables) it is necessary to follow this procedure:

1. If entering the user has set the metal detector's allarm off, the operator can turn off the metal detector with the console, allowing the entrance;
2. If the person, before entering, will ask entrance permission through the intercom, using the console the operator can turn off the metal detector.

In both cases, the operator has to only switch the metal detector in the ON position.

Door closed to the public.

In order to prevent the entrance to the public, during fixed times, it is necessary to turn off the opening button of the external door using the "Bi-directional/unidirectional exit" command on the console. In this case, the user has to ask for the entrance through the intercom.

Anti-hostage alarm

The weight check system is set up at 120 Kg of max. threshold by the head office directly (except for customer's specific request). If there is a weight greater than the above-mentioned value, the exit procedure will be interrupted and the external door will remain open.

In the meantime, a voice synthesis message will invite to contact the operator through the intercom. (If there is the digital console, the display will show the writing "ANTI-HOSTAGE ALARM" with the simultaneous turning on of an acoustic sound).

Procedure for the transit of two people.

If two people have to transit simultaneously, (or, in any case, with the "Anti-hostage" alarm on) by pressing the *Reset* key (*Enter* key for the digital console) the system will end the entrance procedure.

Opening doors in emergency.

The Emergency command on the console allows the simultaneous opening of the doors.

If there is no power supply or if the booth breaks down, it is necessary to use the **manual emergency**. In this case, open the door from inside the bank (over the transit area), switch off the power supply using the **ON/OFF** switch placed on the electronic logic's rack.

If there is a person inside the booth, and there is no power supply, it is possible to open the external door manually.

N.B.: It is important to do this operation after having turned off the booth's main switch.

Automatic function in emergency.

Should there be a power supply failure (220v) the batteries will start working automatically and will enable the functions for at least 30 more minutes. After such time the doors will not work. By pushing the on switch on the main panel it is possible to use an extra energy reserve that will allow some extra door openings.

N.B.: The use of the main panel switch must be used only for emergencies since it can ruin the batteries and will need to be substituted if they do not re-charge.

Stop button inside the booth.

If the stop function is turned on when the doors are moving, it will allow only to open the doors manually.

If the stop function is turned on when both doors are closed, the external door's brake releases, and the movements of the doors are blocked.

To restore the booth's standard operation, it is necessary to reset it.

Passage authorization.

Should undesired people be recognized or if there is the necessity to interrupt the entrance's passage, it can be done by switching to the OFF position the command on the console (fig. 10A - fig. 10B).

To restore the normal passage switch to the ON position.

Booth does not function properly.

Should there be problems with the booth's functions verify that the controls on the console are switched to NORMAL TRANSIT before you do other checks. Unstable current or a long period without power supply can cause problems to the booth, simulating for example, the presence of an object.

To restore the booth to normal working condition, switch OFF the booth on the main console, wait a few seconds and then turn it on again.

In case of a blackout or if the batteries have run out it is possible to open the doors as described in the **emergency procedure**.

Should these malfunctions persist or should problems arise different from those described, please call our maintenance service:

TEL (+39) 0575 9291 - 987116

FAX (+39) 0575 929238

SYSTEM INSTALLING

Preliminary steps

Before you proceed installing the booth it is necessary to follow very carefully the following steps in order to avoid any malfunctions.

N.B.: If the floor is not levelled or has imperfections it could prevent the mechanism from working properly.

- Verify that the booth can be transported vertically to the area of destination.

N.B.: while moving avoid stressing the Metal Detector's columns.

The booth's size cannot be reduced, but it can be placed horizontally for a short distance then it must be placed vertically immediately after.

N.B.: This operation is dangerous and it can cause mechanical damages. We suggest that this job must be carried out only by well equipped and trained people.

It is necessary to let SAIMA know when this operation is necessary.

- Verify that the ceiling is at least 280 cm (each both is 235 cm) this will guarantee that there is enough space on the top for the assembling and maintenance of the system.

- Make sure that there are no devices that could cause the Metal Detector from working properly. (please see M.D's. Disturbances section further in this chapter).

N.B.: for the Metal Detector to work properly it is important that the surrounding area will not be significantly changed through time.

Unpacking

After unpacking all of the parts make sure that the booth's components are not visibly damaged. Should you have any doubts please contact Saima Sicurezza S.p.A. directly....

ALL PACKAGING MATERIALS (PLASTIC BAGS, POLYSTARENE, NAILS, SCREWS WOOD ETC.) MUST BE KEPT OUT OF REACH OF CHILDREN SINCE THEY COULD BE DANGEROUS.



Place this material in dump areas specifically for this purpose.



After unpacking and before you proceed to assemble the booth, put away all the material in a dry and clean place.

Installation and booth assembling must be carried out only by qualified people that have been authorised by Saima Sicurezza S.p.A. and the install and assembly manual must be followed.

After the installation the technician, along with the client will test the system and fill out a report and the client will sign his/her approval if the test is positive.

Testing, adjustments and activating the booth must be done only by a qualified professional technician.

M.D. disturbances

The Metal Detector is a device that is very sensitive to electromagnetic disturbances. In order to obtain maximum results, in particular when highly sensitive it is necessary to take certain steps in the environment where it will be placed.

The disturbances can be of two types :

- 1) of mechanical nature
- 2) or electrical

Mechanical disturbances

The Metal Detector has an electromagnetic generator that is able to induce, in the receiving section, an electropower that modified by metal objects that are transiting it determines its activation. The magnetic field's fluctuation invests up to a certain extent, the space surrounding the probe as well.

Metal structures that are nearby can absorb this field like for example:

- A- moving metal masses that are big and particularly close to the antennas.
- B- Fixed metal structures placed in the proximity of the metal detector can be easily substituted with Formica panels, bakelite, polycarbonate or other isolating materials.
- C- Doors: if they have metal parts they must be at a distance of at least 60 cm. The coil formed by the door's metal parts must be isolated. If the door already has isolating material (blind with wood, etc.) the above notes are not necessary.
- D- Electromagnetic coils made by the structures parts (metal frames, glass doors, metal parts for the ceiling tiles etc.) that because of movement or vibrations are not stable. If the coils are subject to movements, they must be far from the antennas or isolated.
Should the coils be fixed, since they are part of structures surrounding the metal detector they must be isolated (cut) or made electrically stable through electrical bypass connections (should there be paint remove it and use dented washers for the screws).

Electrical disturbances

Are caused by antennas and power cables that are near by, (electromagnetic fields generated by alternate current) or by electromagnetic impulses (electric motors with strong absorbing power and its wires, fluorescent light, emergency devices, air conditioners and or devices)

- A- The power cables must be at least 20 cm from the columns and in particular from the receiving one (the distance depends from the current's intensity) and with wires that do not exceed 2,5 cm (should this be impossible use an isolating tube -with metal like materials- that is at least 2 mm thick).
- B- The impulse sources must be far, eliminated or isolated.
 - b₁. Fluorescent lights: the lights and the ballasts must be far from the metal detector especially from the receiving column that is marked by a red label. Where possible replace fluorescent lights with regular light bulbs.
 - b₂. Electric locks: if they are near the metal detector's columns we suggest you use a well isolated model. It is best to use motorised locks that use less peak power.

Booth placing

Booth installation can be done in two ways:

- a) - placed on the floor**
- b) - embedded installation**

PLACED ON THE FLOOR:

- 1) Position the booth in the desired area placing the external part of the booth toward the outside of the building.

To move the booth use a crane that handles at least 1500 Kg with chains that can be hooked to the booth's four top corners "A" of the booth (*fig. 5A*), a crowbar at the bottom and rollers underneath the base (*fig. 5B*).

SEE FIGURE 5A - 5B BOOTH MOVING

- 2) Free the booth the external packaging only after it has been positioned.
- 3) Place the booth on the ground so that it remains firm using the stabilizing screws (1-2-3-4) that are under the four lids placed on the rubber floor (*fig. 6*).
Stability is essential for the booth to work properly.

SEE FIGURE 6 STABILIZING SCREWS

- 4) Mount all needed parts such as locks to the booth's structure making sure that the screws are not longer than 2 cm. Do not drill holes on plastic and glass parts. Do not drill holes near the glass and stay at least 3 cm away from the glass frames. Make sure you leave free space near the inspection panels.
- 5) Should there be two or more booth's together decide which will be the right one and which the left one.
Clear instructions are given on the booth's external side under the packaging. It is important to follow the positioning instructions of each booth in respect to the installation area.

EMBEDDED INSTALLATION:

This is done when you wish to have the booth's floor levelled with the external ground. If it is a new building a floor frame that can be through Saima Sicurezza (*fig. 7*), must be used. The frame must be cemented on the sides then the floor (such as tiles) must be placed until all is covered. If the building is not new or the floors are already laid down it must be embedded. The dimensions must be those of the frame's external sides which will have to be placed (embedded) and cemented.

- 1) Follow point 1 described for the placed on floor installation.

SEE FIGURE 7 EMBEDDED INSTALLATION

- 2) Place the booth on the base in the right direction.
- 3) Use the plastic panels (part A fig.8) (if request) that are used as wire covers between the booth and the metal frame. These can be adapted and fixed with silicone.

Placing the lateral panels

Placing the lateral panels is as follows:

- 1) Position the booth in the desired place and set it firmly.
- 2) Place flexible mountings as shown in the drawing.

SEE FIGURE 8 FRAME ANCHORING

- 3) Drill holes on surface with proper drill bit (to be tapped).

Attention: do not drill over 1 cm in depth and drill only where shown in the picture.

- 4) Use screws of the right size and tighten.

Wiring

- 1) Close to the booth's housing, make an electric connector box powered by a cable connected to the bank's fuse box. The booth is supplied with a 1,5 m long power supply cable complete with plug.

We recommend you protect the power supply cable with a 15 A Id = 0.03 A differential switch. Make sure that the grounding is good.

SEE FIGURE 9 WIRING

N.B. 1: We suggest you make the connector box with n°2 plugs and with the differential gear included.

- 2) From the upper part of the booth, arrange a multipolar cable connecting the booth to the place where the operator is assigned to operate the console, using a duct with a diameter of 32 mm. **Use a duct different from the one used for the power supply cable.**

- 3) In case of coupled booths, the connector box power supply must be separated. To connect with the console, all booths must be connected between them using Saima's connecting cable (cod. 5804530).

- 4) Connect the console's cable.

N.B.2: The cable's passage can be also made at the bottom. In this case, arrange the insertion of cables inside the booth's vertical passage holes when it is placed on the ground.

Use a duct separated from the one used for the power supply cable. In order to respect the laws, it is necessary to ground the connection.

- 5) Switch on the bank's main, which feeds the booth with the privileged line. So, switch on the booth's main.

WARNING!: Before starting the booth, remove the door-block rod placed on the booth's ceiling.

- 6) Start the booth with the ignition key placed on the console or the key placed on the external side of the booth. Wait approximately 10 seconds, during which do not touch the doors, so to avoid calibration changes.

- 7) Now the booth is ready to be tested (this must to be carried out by authorized staff only) and ready for use.

Testing

After installation verify:

- Command functions.
- Metal detector alarm.
- Photocell functions.
- Verify door movement.
- Verify automatic reset (after Metal Detector alarm).
- Light signals.

For different settings from those set ask Saima Sicurezza S.p.A. for the technical manuals.

Disabling and removing

If the booth is not used for a long time disconnect the booth's power connecting cable.

Disconnect the batteries. We suggest you place all parts in a dry and well protected environment and to isolate any parts that might be on the floor or walls.

**WE WOULD LIKE TO REMIND YOU THAT THE DISSEMBLING
CAN BE DONE ONLY BY QUALIFIED TECHNICIANS THAT HAVE
BEEN AUTHORISED BY THE MAKER.**

MAINTENANCE

System handbook

Verify the following every six months:

TYPE OF CHECK	CHECK DESCRIPTION
Electronic motherboard	Check liquid infiltration. Check parts for over-heating. Check the main board's leds.
Metal Detector	Test by passing without metal objects and with metal objects. Use NILECJ testers.
Emergency unlock	Check the emergency unlock working. Check cable condition.
Anti-accident	Test emergency unlock. Verify maximum torque. Check sensivity of anti-accident sensors.
Motor parts	Check if wheels are properly fixed. Verify wheel and belt condition. Clean wheel tracks. Make sure there are no oil leaks in the motor reducers. Check if there is play in moving parts when the door is still.
If there is play in moving parts while working	Check wheel movement. Check brakes for wear and tear. Check motor noise and kinematic mechanism.
Weight system	Verify that the internal floor - external floor is aligned. Verify person's weight, return to zero with $\pm 1\text{Kg}$ tolerance.
Booth's object verification system	Verify if metal objects abandoned in the booth are detected: on the floor, sides and on the ceiling. Use NILECJ tester.
Self-powering	Check batteries and if they must be changed. Check the system's working without the power line (only the lamp inside the booth must remain closed).

N.B. This book is an integral part of this system and it must be kept in a place near the booth.

Function anomalies

<i>PROBLEMS</i>	<i>POSSIBLE SOLUTIONS</i>
<p>The external door opens and closes constantly a recorded voice gives a message "Please put all metal objects in the box" (only booths with Metal Detector).</p>	<p>1) See if a dangerous or suspicious object has been abandoned inside the booth. Do not touch anything and ring the alarm. If it is a different object remove it as follows:</p> <p>1.1) Open the internal or external door using the open command and remove the object.</p> <p>1.2) After removing the object and cancelled the open door command verify that the door remains closed; If the problem persists Reset the logic.</p> <p>2) If the problem persists or if it happens again after a short while please contact Saima's assistance service.</p>
<p>The door does not close.</p>	<p>1) 2 people in the booth:</p> <p>1.1) Through the intercom ask one person to leave the booth.</p> <p>2) A person with excessive weight or an adult with a child inside the booth:</p> <p>2.1) Through the intercom ask one person to leave the booth.</p> <p>3) Booth is empty:</p> <p>3.1) Check the open door command.</p> <p>4) The photocell on the side of the passage is covered:</p> <p>4.1) Remove the object in front of the photocell.</p> <p>4.2) Clean the photocell's glass.</p> <p>4.3) Turn off the photocell using the "Power consolle 7" key. The booth is reset, but you must call the Saima assistance service.</p> <p>5) The booth is empty and none of the above conditions apply (1-2-3-4):</p> <p>5.1) Reset the logic.</p> <p>6) Please contact Saima's assistance service.</p>

<i>PROBLEMS</i>	<i>POSSIBLE SOLUTIONS</i>
The door does not work properly.	1) Verify the command position on the console. 2) Reset from the console.
The metal detector's alarm goes off constantly.	1) See if there are metal objects near the external door. 2) See if there is any maintenance work being done near the booth.

FIGURE 1 EXTERNAL SIDE VIEW

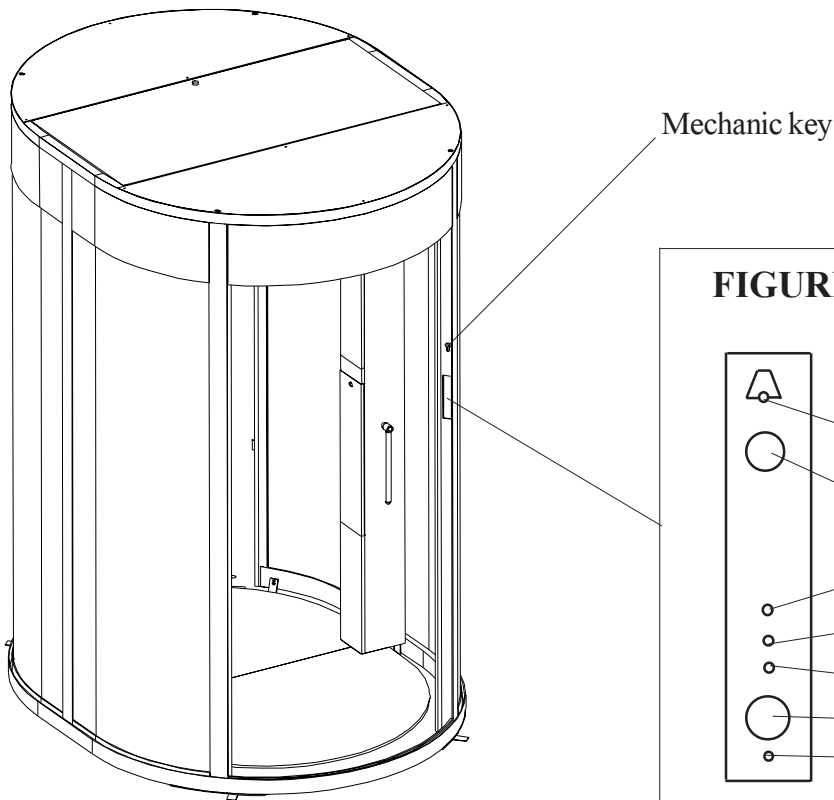


FIGURE 2A EXTERNAL PUSH-BUTTON PANEL

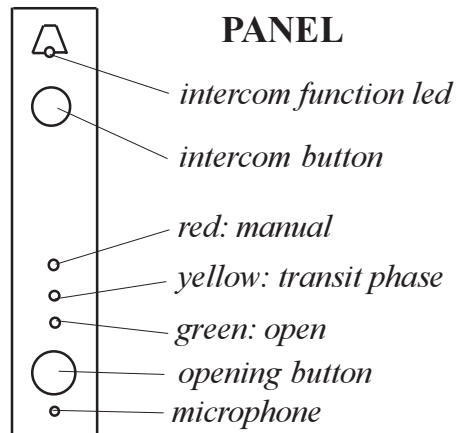


FIGURE 3 INTERNAL SIDE VIEW

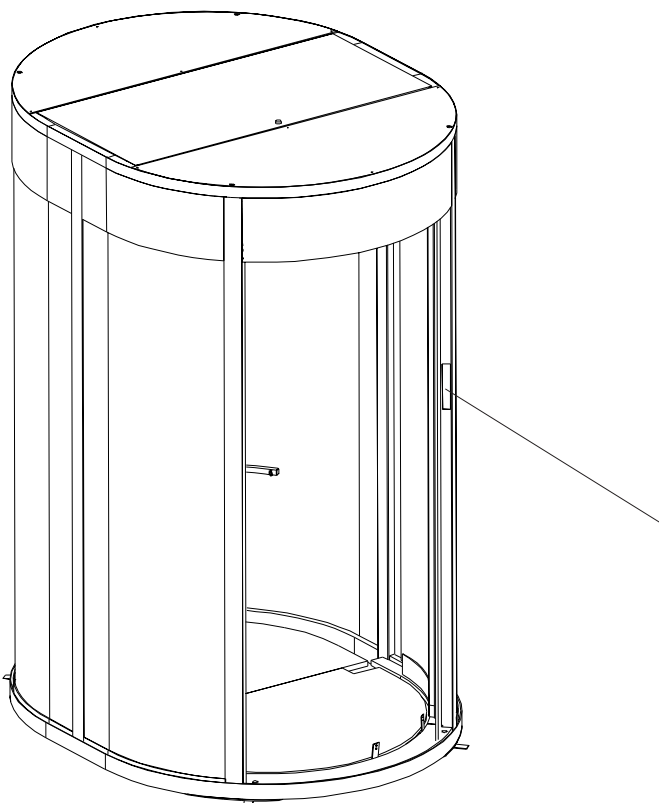


FIGURE 2B INTERNAL PUSH-BUTTON PANEL

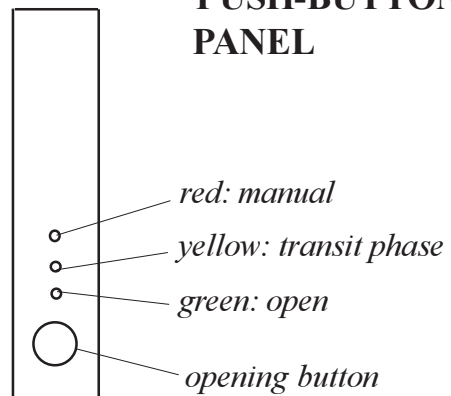
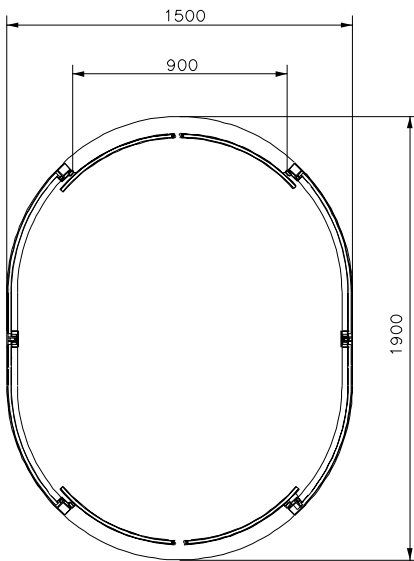
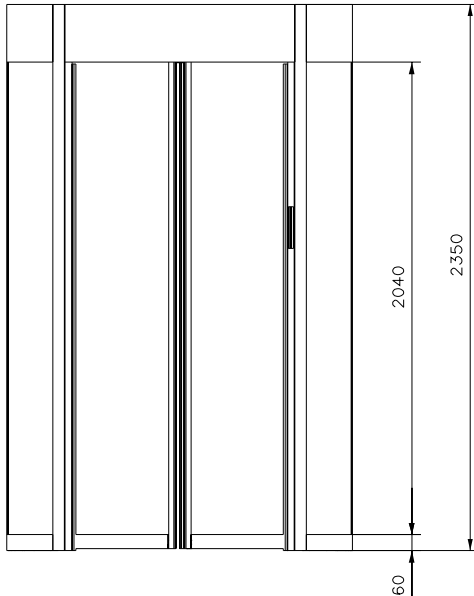


FIGURE 4 TECHNICAL FEATURES



Electric system

- Power supply : 220 ± 10%V - 50Hz
- Maximum power consumption : 0,2 KW
- Batteries : n°2- leak-free led 12V- 6Ah aligned
- Inputs and outputs : 20 + 16
- Lines : n°3 RS232 (+ n°1 RS232 Reserved)
n°2 RS 485
- Motors : n° 2 - 24 VDC - 150W with break
- Main board management : microprocessor programmable

Structure

- Frame: Curved steel sheets 40/10 mm
- Side impact-absorber: layered flat and curved glass 13/14mm (6 + 6 + PVB 0.76)
- Paint: Polyurethane type with epoxy bottom. Finish fine embossing.

Performance

- Reset type: Automatic
- Transit speed: 10 passages for minute
- Working temperature: -10 °C / +55°C

Booth weight: 715 Kg

FIGURE 5A-5B BOOTH MOVING

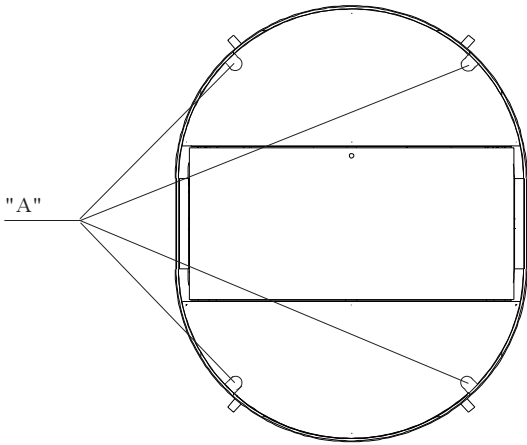


Fig. 5A

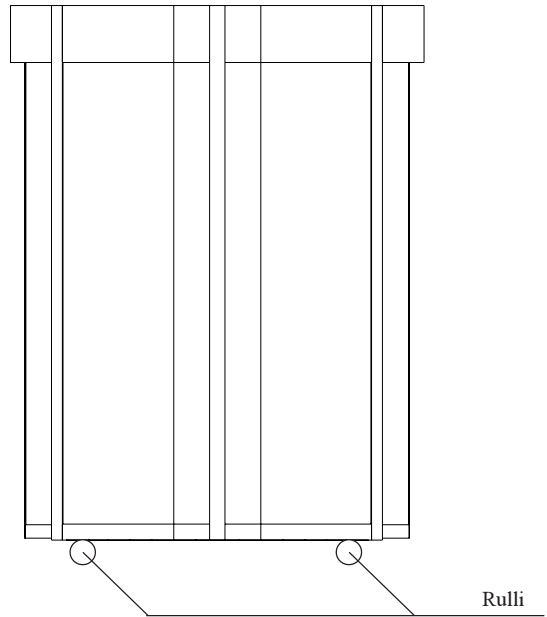


Fig. 5B

FIGURE 6 SETTING SCREWS

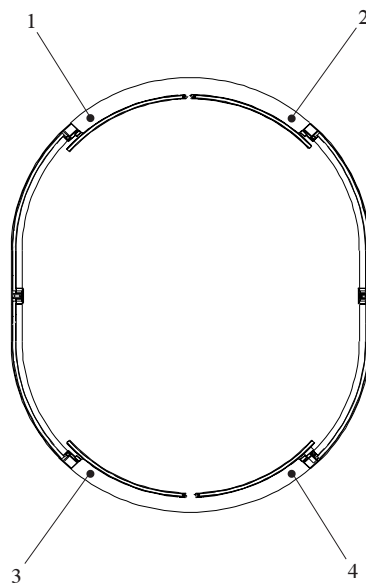
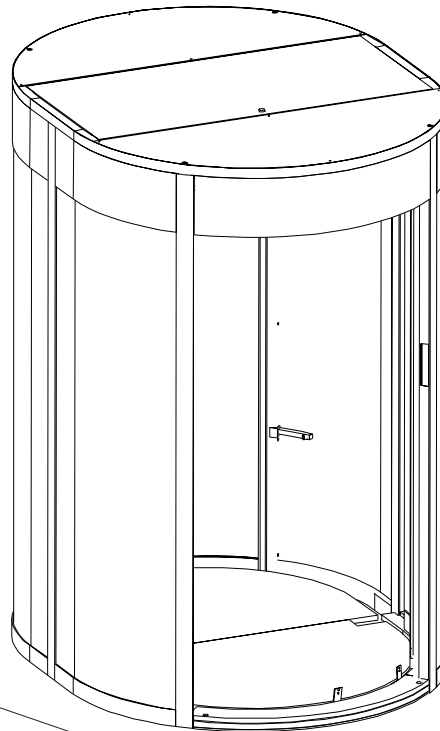


FIGURE 7 FLOOR EMBEDDED INSTALLATION

Cable openings

We suggest you keep these openings in correspondence to the external side.



FLOOR FRAME
DIMENSION
1928 x 1528 H=64

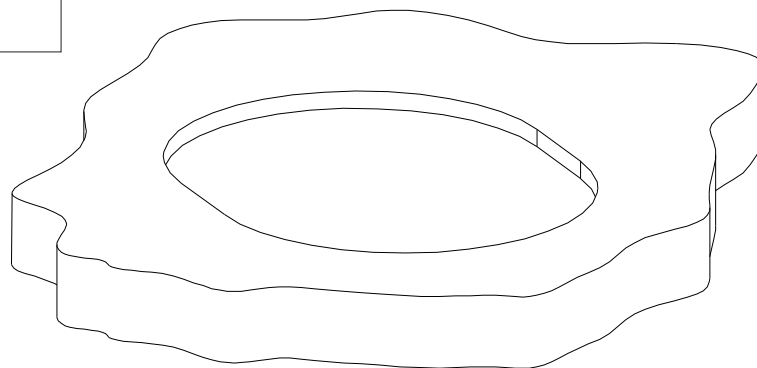
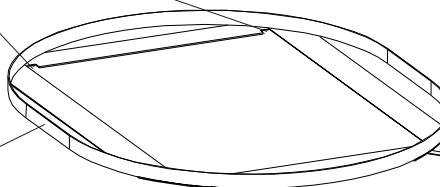


FIGURE 8 FRAME ANCHORING

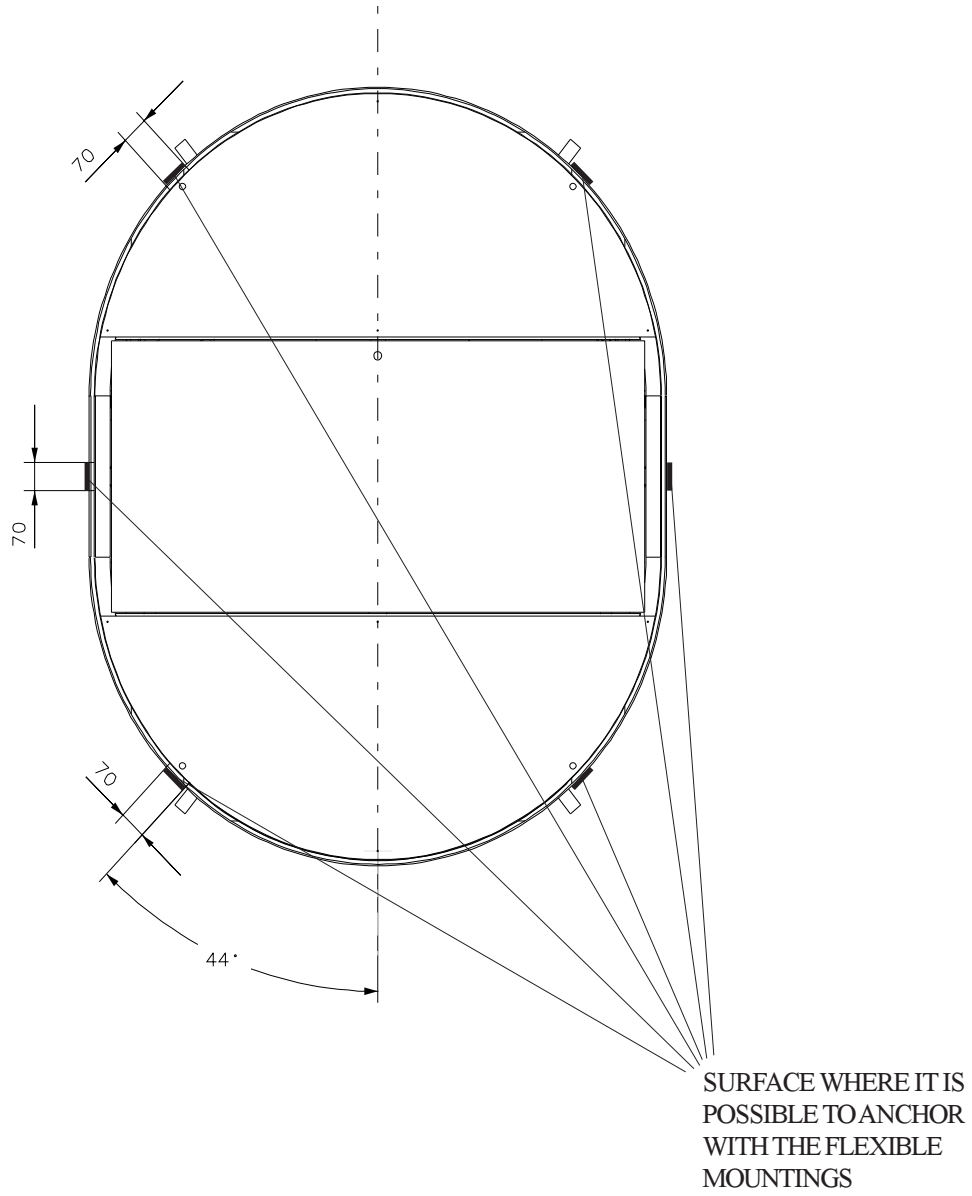


FIGURE 9 WIRING

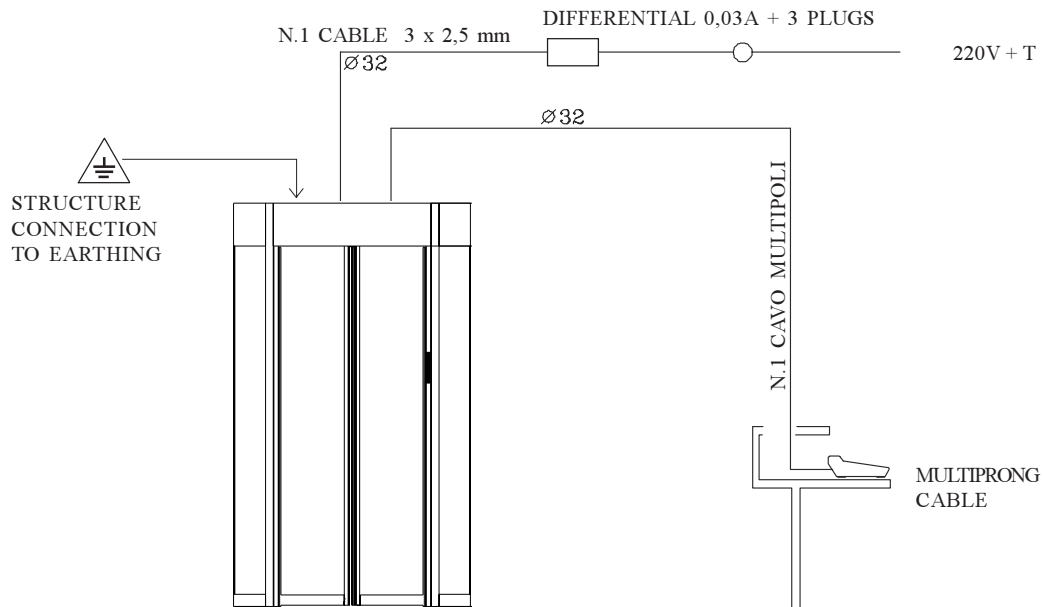
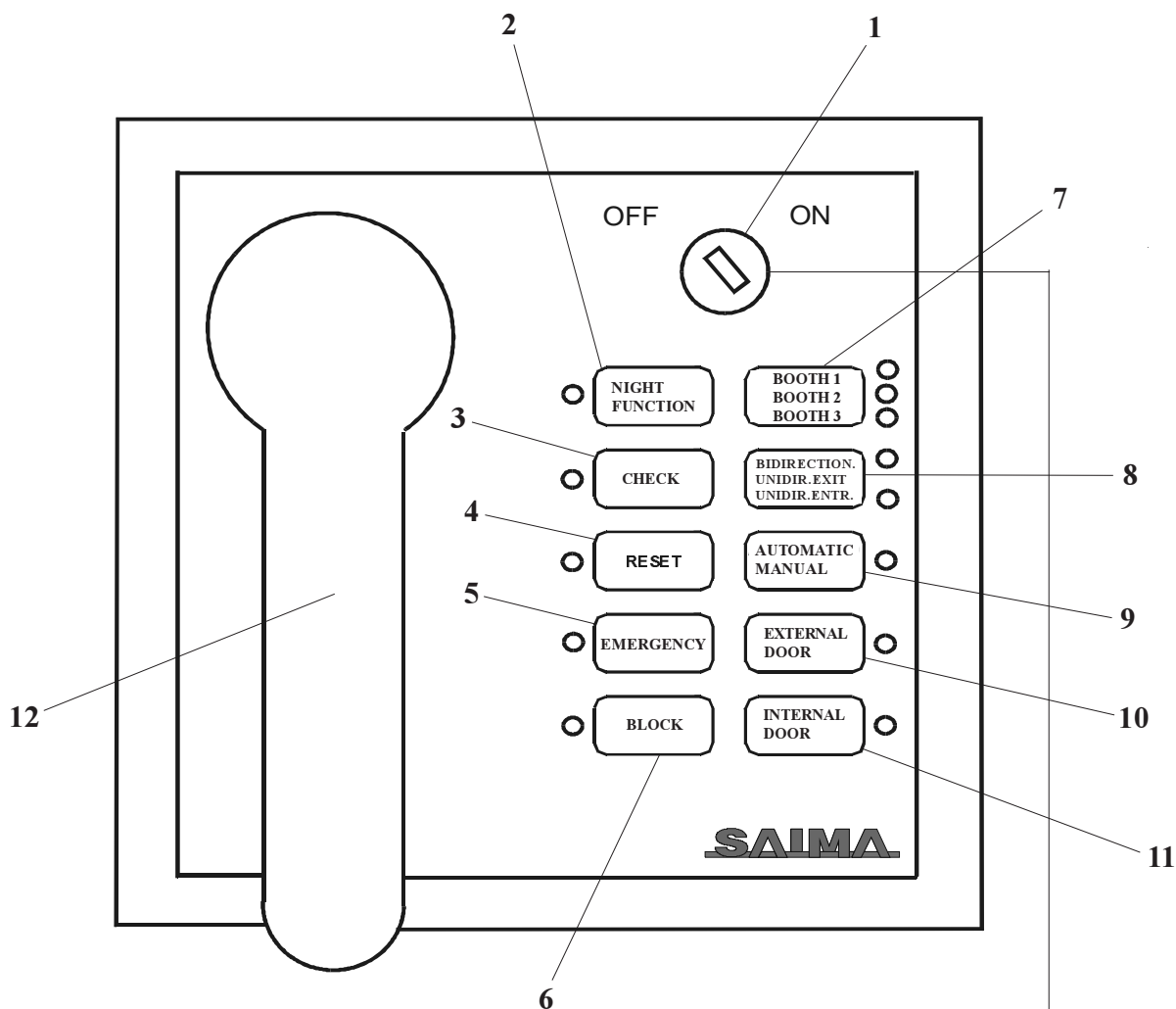


FIGURE 10A SERIAL CONTROL CONSOLE



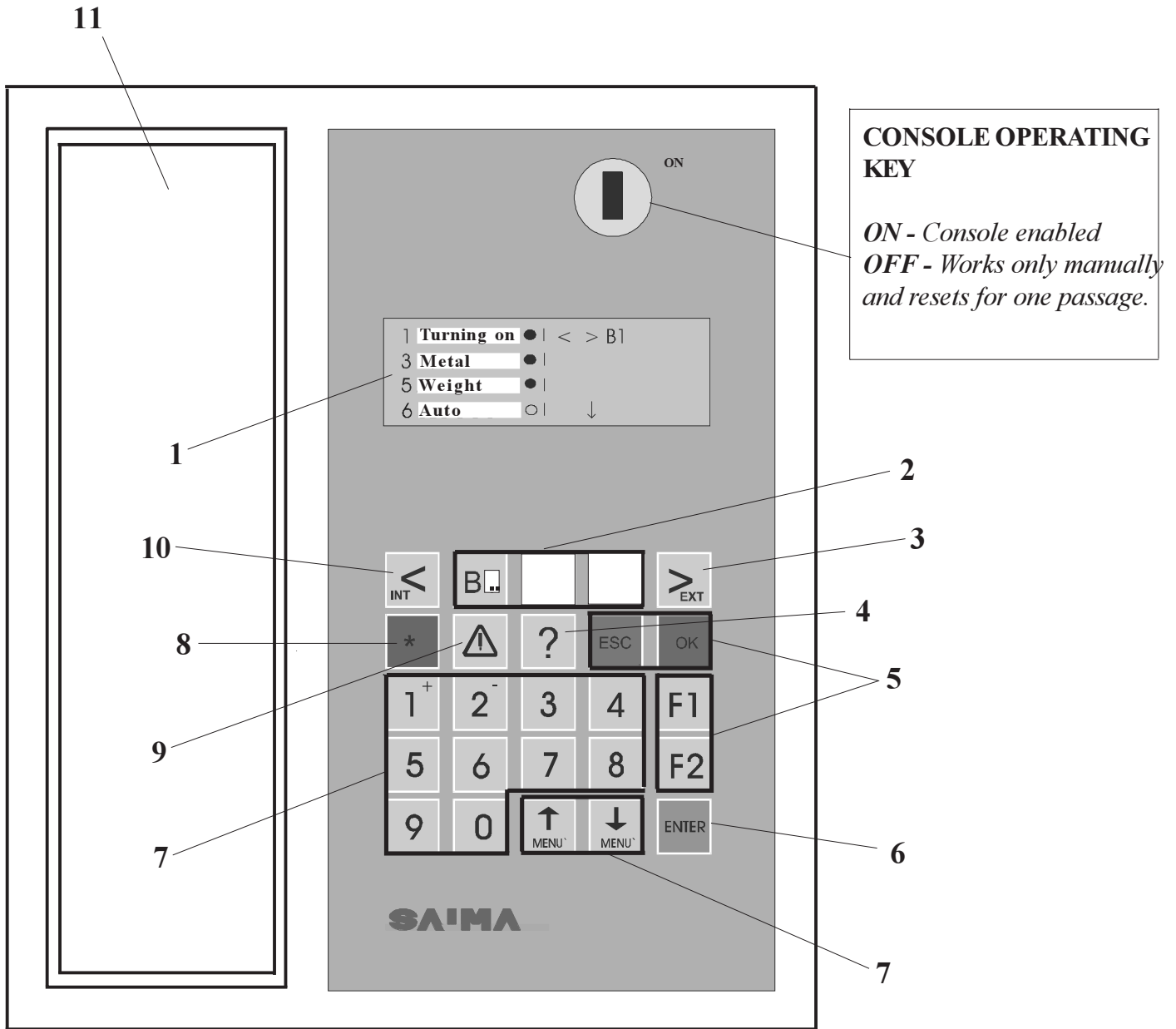
- 1 - ON/OFF key to enable the console
- 2 - Starting - Night function
- 3 - Check (Metal Detector)
- 4 - Reset
- 5 - Emergency
- 6 - Block
- 7 - Booth1, booth 2, booth 3
- 8 - Bidirectional/unidirectional exit/unidirectional entrance
- 9 - Automatic/Manual
- 10 - External door
- 11 - Internal door
- 12 - Intercom handset

CONSOLE OPERATING KEY

ON- Console enabled

OFF- Only the functions "Manual working" and "Reset for one passage are enabled

FIGURE 10B DIGITAL CONTROL CONSOLE



CONSOLE OPERATING KEY

ON - Console enabled
OFF - Works only manually and resets for one passage.

- 1 - Display
- 2 - Seles booth B
- 3 - External door's manual opening.
- 4 - Multifunction key
- 5 - Setup keys
- 6 - Reset
- 7 - Shifting of the function menu
- 8 - Emergency
- 9 - CE release
- 10 - Internal door's manual opening.
- 11 - Intercom handset.