GENERAL CATALOGUE
2020-2021

CONTROLLERS
PROXIMITY READERS
RF RECEIVERS
PROXIMITY KEYS AND
CARDS
DUAL-TECHNOLOGY
REMOTE CONTROLS
KEYPADS
ENTRY PANELS
SOFTWARES
ACCESSORIES

FDI
URMET|GROUP

IF YOU LOVE YOUR BUILDING

SUMMARY

On line

Read and write

Standalone

Readers

Panels

Credentials

Notice board

Accessories

To ensure continued improvement, FDI Matelec reserves the right to make any changes considered useful.
For any technical precision, do not hesitate to contact us.
Non contractual pictures.

FDI MATELEC

Designer and manufacturer of access control products since 1989, FDI MATELEC controls all its projects from conception to production.

Key player in residential and industrial access control applications, thanks to the use of up-to-date technology and highly skilled people, FDI MATELEC offers a range of products adapted to each project, from dedicated solutions to small single-site installations as well as large multi-site networks.

The company is a subsidiary of Urmet France since 2000 (Urmet group Italy) and has been exporting its products worldwide since 2004.

FDI MATELEC is part of the group of professionals at the initiative of Vigik label and its products are approved. Its entry panels are DDA compliant as well.

Its new site of 7900 sqm (4000 sqm dedicated to production and storage and 3900 sqm for offices, co-working and social offices) based in Cholet (West part of France) and ready early 2021, will welcome about 150 employees.

FDI MATELEC services

FDI R&D, test and support

To be at the cutting edge of innovation, FDI MATELEC invests each year in its research & developement, test and support department.
The result is a team of 35 technicians and engineers divided into 3 skills areas :
• the hardware department developping the electronic boards,
• the embedded software department that creates the management applications of the electronic boards,
• the PC department developping web softwares and mobile applications that will be the interface between the user and the hardware.

Each department ensures a technological watch and, on each project, a significant portion is dedicated to research and innovation.
All developments include a comprehensive study to reduce the product's impact on the environment throughout its life cycle. The products are designed to facilitate and simplify the ergonomic use by clients (installer, user …).

Finally, to ensure the best performance, a team of 9 technicians, separated from the design and technical department, is dedicated to the validation of new products or main changes. Each element must successfully pass the functional test plans to validate its full operation and reliability for commercialization (controller, software…).

FDi

FDI's production

A team of 35 people works in FDIs production factory of 2500 sqm.

The site is equipped with high-technology machines :
• 1 soldering paste print machine DEK ELA Horizon,
• 1 chip shooter MYCRONIC MY200HX (36K components per hour)
• 1 chip shooter MYCRONIC MY200SX (16K components per hour)
• 1 SOLTEC soldering oven 8 zones for soldering and polymerization of glue,
• 1 automatic optical inspection machine ISP (automatic optical control of components by comparing image)
• 1 AOI 2D control machine
• 1 flying probe In-situ testing machine SPEA 4040
• 2 milling machines for machining and etching of plastics, aluminum and brass,
• 1 laser marking technology machine YAG (Rofin Basel)
• Multiple assembly areas with adjustable torque screwdrivers.

The entire installation allows a capacity up to boxes of 0.1 mm sized on 0.05mm BGA 0.4mm pitch, the measuring value of discrete components, video analysis, traceability of components on the boards and automated tests.

FDI MATELEC's manufacturing process is consistent with the ROHS Directive regarding the elimination of lead into tin solder.

This way, FDI MATELEC can produce more than 1.4 million RFID keys and HF remote, 30000 controllers, 50000 RFID readers and HF receivers and more than 10000 intercom panels per year.

Quality FDI

FDI has been engaged for several years in an organizational, industrial and competitive approach with ever greater consideration of its customers and their requirements, in compliance with the regulatory framework imposed by the laws and markets in force.

In this context, it seemed important for FDI to have its position, actions and efforts recognized by a certification according to the international standard ISO 9001.2015 (certified since March 2011).

FDI is located in a rural area and therefore sensitive to its impact on the environment. In order to maintain a competitive edge and remain in compliance with changes in building standards, FDI design environmentally friendly products, defined by the ISO 14001.2015 standard (certified since March 2014).

As a result, the structure put in place commits to:
• Ensure a permanent level of total customer satisfaction,
• Look for solutions to adapt our operating methods to our environment and to meet the expectations of the identified interested parties,
• Develop our products according to respect of the environment rules,
• Reduce the impact of sthe company on its immediate environment,
• To respect current regulation,
• Prevent any risk of pollution.

FDI : Founder member of the recycling branch DEEE Pro.

FDi
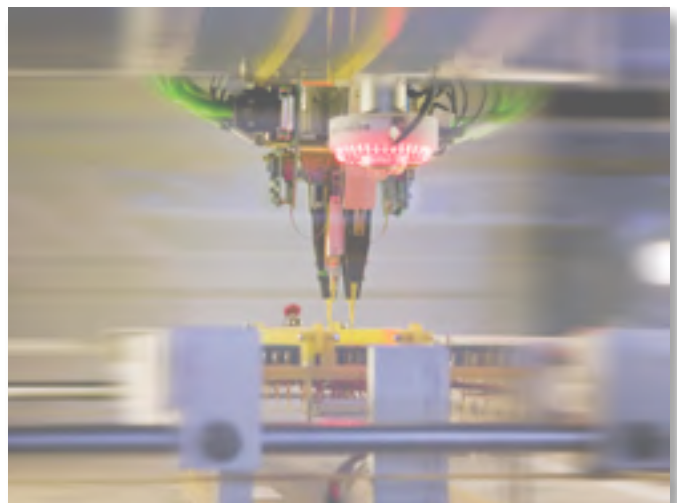
CHOOSING YOUR ACCESS CONTROL…

What is the access control ?

Access control allows or refuses the access to a person or group of people in order to improve the safety of a building.
When a key is presented to the reader, the reader sends the information (usually a serial number) to a controller.
The controller compares the received information with its data, allows or refuses the access and sends information to its database.
When access is refused, the door remains closed.
When access is granted, the controller activates a relay that opens the door.

Why using electronic access control ?

In the case of a conventional lock, when a key is lost, you must replace the cylinder lock plus any other key to ensure that unauthorized person can not use this door again. In addition, these keys can be copied indefinitely.

In the electronic access control, each key has a unique identifier.
The controller allows access for the identified keys and refuses the others. When a key is lost, the manager cancels the identifier in the controller and the lost or stolen key becomes inactive.
Secondly, electronic keys cannot be copied. Safety is increased.

3 POSSIBILITIES TO MANAGE YOUR ACCESS CONTROL :

. Standalone management
Standalone management is carried out on site.
It means being physically near the keypad or the controller to program it. This type of management is preferred when the system requires few intervention or when a person is present on site and able to make these changes, a caretaker for instance.
A keypad is programmed by a master code and does not require to be disassembled to be set. The programmed secret code can have from 3 to 8 terms and can be changed as often as desired by using the master code. The keypad is the simplest and most economic access control solution.
Programming a standalone controller does not need any tool whereas a controller requires a central programming terminal or a software installed on a computer.
It has at least a programming mean (switch and/or master key) and has often a keypad and a display.

Standalone management

I3 VANDAL
RESISTANT KEY-
PAD
Doors : 2
Up to 22 codes

EASY DOOR
CONTROLLER
Door : 1
Users : 1500

K-PAD
Doors : maximum 4
Up to 100 codes

Please note, a controller can be either a standalone controller either not.
For example, it can work with a
standalone management for a simple management,
but may require a software to offer more opportunities.
Generally, keypads and standalone controllers
are preferred for small installations.
In traditional access systems, each electronic key has
a unique electronic serial number allowed or not into
controllers.
This is called read-only.

. Read and write management

Read and write management is performed off-site.

This technology enables remote management while providing more opportunities than standalone management settings. The manager can manage its badges from any locations without going on site.

In read and write management permissions are stored in the key. Keys have therefore a large memory to store these permissions. Access profiles are stored in each key via an encoder and a software.

The software can be installed on a PC or be a web-based software accessible from anywhere with a login and password.

When a key is presented to a reader, the controller read permissions inside the key, authorizes it or not, and updates its own memory. It is no longer necessary to go to the site to add a key, and a key can also be removed from a controller to prevent access. To do this, simply present a new key to the encoder that will update the controller at the first presentation to a reader.

Read and write management

EASY DOOR
CONTROLLER
Door : 1
Users : 2000

. On line management

We talk about on line management when programming keys is performed offsite in real time.

From one place, the user manages access to an unlimited number of buildings, connecting to sites via modem or TCP/IP.

As soon as the user enters new settings in his software, controllers are updated. Controllers are able to pull up information on the computer in real time. For example, a door kept open will activate a popup on the PC screen.

On line

IPASSAN
Doors : 2 to 6 per controller
Users : 100 000

TRANSIT IP
Doors : 2
Users : 5000

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CENTRALIZED MANAGEMENT FROM
A CONNECTED SOFTWARE.
THE CONTROLLER IS UPDATED IN REAL TIME.

ON LINE
MANAGEMENT

FDi

IPASSAN ACCESS CONTROL

Features and benefits

IPassan is an IP-based access control system designed for medium to large commercial and residential projects.

This simple but powerful solution is the result of continuous improvement of the access control expertise of our engineers involved in this project at FDI.

The **IPassan** system is set-up via the **IPassan Manager,** a very intuitive software which can be installed on a computer or on a server to enable remote and multiple access.

IPassan Manager is an architectural real client server, offering the best possible flexibility.

A Cloud version is also available on **www.ipassan.com** if an Internet connection is available on site.

- > **Up to six 2SMART readers per controller**
- > **Easy commissioning smart wizard**
- > **Secure communication**
- > **Scalable access control**

ipassan

CCTV integration

Up to 100.000 credentials per site

Booking / Visitor Management System

Unlimited number of doors per site/ 384 doors per network
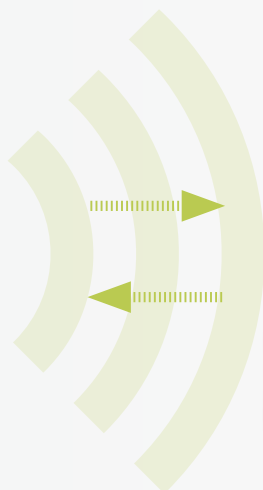
HLI (High Level Interface) lift / intercom

Data import

Anti-passback and counting

Full monitoring and maintenance

BLE access ANPR QR code Prox/remote

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CONTROLLER

For 2-SMART readers

FD-125-002   **IPassan 4 door base controller - Ethernet connection 12v**

FD-125-001   **IPassan 4 door base controller 24/48V POE**

Dimensions (L X W X h) : 200mm x 90mm x 34mm.

(210mm x 145mm x 65mm with cover).

DIN rail or wall mounted.

High system modularity.

Local or remote programming.

Up to 64 controllers in TCP/IP network, 384 doors in total per network

Up to 32 controllers in RS485 network within 1000m, 192 doors in total

100 000 credentials, 2 000 groups.

220 inputs or outputs per controller = 14080 possible inputs or outputs per TCP/IP network or 7040 in RS485 .

20 000 events per network.

Lift management (max 64) up to 110 floors.

Management of 2 wire readers, RF receivers and keypads inorder to update their firmware.

Permanent diagnostic via LEDS.

Operating temperature : -10°C to +60°C.

12V / 24V / 48V / POE power supply according to part number.

For 2-SMART readers

FD-125-010   **IPassan 2 door expansion card for base controller**

Dimensions : 200mm x 70mm x 26 mm.

With this expansion card, each 2-SMART controller can increase its capacity to 6 doors.

It is plugged from above onto the controller.

For WIEGAND readers

FD-125-004   **IPassan 2 door base controller Ethernet connection 12V**

FD-125-003   **IPassan 2 door base controllerZEthernet connection 24/48V POE**

Dimensions (L X W X h) : 200mm x 90mm x 34mm.

(210mm x 145mm x 65mm with cover).

DIN rail or wall mounted.

High system modularity.

Local or remote programming.

Up to 64 controllers in TCP/IP network, 384 doors in total per network

Up to 32 controllers in RS485 network within 1000m, 192 doors in total

100 000 credentials, 2 000 groups.

220 inputs or outputs per controller = 14080 possible inputs or outputs per TCP/IP network or 7040 in RS485.

20 000 events per controller.

Lift management (max 64) up to 110 floors.

Management of 2 wire readers, RF receivers and keypads inorder to update their firmware.

Permanent diagnostic via LEDS.

Operating temperature : -10°C to +60°C.

112V / 24V / 48V / POE power supply according to part number.

For Wiegand readers

FD-125-011   **IPassan 4 door expansion card for base controller (door 3-4-5-6)**

Dimensions : 200mm x 70mm x 26 mm.

With this expansion card, each controller can increase its capacity to 6 doors.

It is plugged from above onto the controller.

You can also connect up to 64 controllers in the same network for a maximum capacity of 384 doors.

I/O OPTIONS

FD-125-015

10 input base module - RS485 connection
Dimensions (L X W X h) : 200mm x 90mm x 34mm.
(210mm x 145mm x 65mm with cover). DIN rail or wall mounting.
This module is connected to the controller via the RS 485 bus and enables
to manage 10 inputs.
You can connect up to 10 inputs modules for a maximum capacity of 220 inputs/outputs
per controller.

FD-125-020

12 input expansion card
Dimensions : 200mm x 70mm x 26mm.
This expansion card enables to manage 12 inputs.
It can be connected to a controller, a 10 input module or 10 outputs.
It is plugged from above onto the base module.

FD-125-016

10 output base mpodule - Connection RS485
Dimensions (L X W X h) : 200mm x 90mm x 34mm.
(210mm x 145mm x 65mm with cover).
DIN rail or wall mounting.
This module is connected to the controller via the RS 485 bus and enables
to manage 10 outputs.
You can connect up to 10 output modules for a maximum capacity
of 220 inputs/outputs per controller.
Perfect and easy device for the lift management for example.

FD-125-021

12 output expansion card
Dimensions : 200mm x 70mm x 26mm.
This expansion card enables to manage 12 inputs.
It can be connected to a controller, a 10 input module or 10 outputs.
It is plugged from above onto the base module.
Perfect and easy device for the lift management for example.

ACTIVATION CARDS

Some advanced system features required a software license that is added to Ipassan
manager via one or more activation cards.
An activation card is always linked to a controller number even when an activation card
activate a feature for all the site.
Each controller can manage up to 10 activation cards maximum.

FD-050-091	**Activation card KONE option 50 floors**
FD-050-092	**Activation card KONE option 100 floors**
FD-050-093	**Activation card KONE option 200 floors**
FD-050-094	**Activation card ANPR**
FD-050-095	**Activation card open reader**
FD-050-096	**Activation card 2Voice interface**
FD-050-097	**Activation card booking management**
FD-050-098	**Activation card INNOVA ANPR**
FD-050-099	**Activation card KONE DOP**
FD-050-100	**Activation card ONITY**
FD-050-101	**Activation card OTIS EMS option 50 floors**
FD-050-102	**Activation card OTIS EMS option 100 floors**
FD-050-103	**Activation card OTIS EMS option 200 floors**
FD-050-104	**Activation card OTIS COMPASS**
FD-050-105	**Activation card IPERCOM integration**

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CENTRALIZED MANAGEMENT FROM A SOFTWARE NOT CONNECTED TO THE CONTROLLER.
THE CONTROLLER IS UPDATED WHEN THE KEYS ARE SWIPED.

READ AND WRITE
MANAGEMENT

FDi

EASY DOOR ACCESS CONTROL

Features and benefits

Easy Door Controller is a single door controller designed for small residential applications which can easily be integrated to your project and does not require many electrical connections.
Virtual network combines the advantages of standalone and network systems. Thanks to this new technology, you don't need anymore to connect every controller to a single network in order to manage access remotely or on site.

No more expensive IP infrastructure costs, complicated configuration, Easy Door Controller will ensure optimum safety, maximum configuration flexibility and an easy use.

By its small size, Easy Door Controller can also be integrated within door entry systems and matches perfectly with your customer design.

EASY DOOR CONTROLLER

> Easy wiring
> Simple programming of the keys
> Maintenance free
> Automatic saved data

Virtual network

Read & Write technology.

● **Simple and intuitive use**
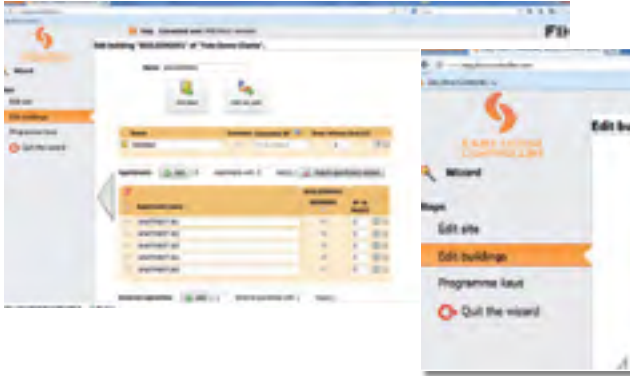
● **Search bar Menu**

●**Key / Door Modifications**

●**Event Backup**

●**Secure Management**

FDi

EASY DOOR RECEIVER

868MHz/13.56MHz   2 doors   2000

- Dimensions (L x H x D) : 120mmx100mmx40mm
- Programming through master remotes
  or via www.easydoorcontroller.com
- Remote control reading distance : 100m
- Power supply : 12/24 Vac or Vdc
- Manages 2 relays :
  Relay 1 RF and/or proximity - Relay 2 RF only
- Anti Pass back management
- Events management (20 000 events/months)
- Removable memory
- Operating temperature : -20°C to +70°C
- Complies with CE norms

Easy Door Receiver is an RF access control device which has been designed for 2 gates and manage up to 2000 users.
It is the RF version of Easy Door Controller.
The same product can be managed either away from its installation place (remote management called Virtual Network Mode) or on site (standalone mode).

In virtual Network, Easy Door remote controls and prox keys store and carry the programming of the site from your computer where they are encoded to the doors/gates of the site. Your remote control or prox key are both your means of identification and the means to carry the information to the controller.

Do you manage your access control on-site, you have few users and you only need few remote controls ? Therefore, you can use Easy Door Receiver simply and easily in standalone mode without any programming tool.

Easy Door Receiver even offers the possibility to connect a proximity reader in parallel to door 1. This reader can not only be used for access but it is also useful to download events via a special proximity key.

CONTROLLER

GB-140-089

Easy Door Controller
Dimensions (L x H x D) : 70mmx70mmx20mm.
Operating temperature : -20°C to +55°C.

GB-150-011

Easy Door Receiver
Dimensions (L x H x D) : 120mmx100mmx40mm
Remote control reading distance : 100m
Power supply : 12/24 Vac or Vdc
Manages 2 relays :
Relay 1 RF and/or proximity - Relay 2 RF only
Removable memory
Operating temperature : -20°C to +70°C

GB-140-169

Mifare+ Kit Easy Door Controller with P40 mullion reader
Kit Easy Door Controller with 1 controller,
1 P40 mullion reader and 10 colored keys.

FD-500-575

Easy Door Controller encoder 13.56MHz
Dimensions : 130mmx105mmx30mm.
Can encode keys and remote controls.
It is connected to the PC via a USB cord (supplied).
It contains a backup removable memory reader.
Confirmation by buzzer and led.

FDi

EASY PROGRAMMING ON THE PRODUCT AND
WITHOUT ANY TOOLS.
COST EFFECTIVE SOLUTION FOR A SIMPLE
ACCESS CONTROL.

STANDALONE
MANAGEMENT

FDi

K-PAD

Features and benefits

Especially designed for automation (alarms, gates…), our surface mount K-PAD are meant for any type of project for the control of one or 2 doors. Their IP rating of IP 65 is perfectly adapted to outdoor fitting. The KPAD range is available in wired version or in wireless version with remote electronics. A zamak housing (ultra-resistant material against vandalism) is also available.

K-PAD
Standard

**K-PAD
WIRELESS**

REMOTE ELECTRONICS

**K-PAD
PROTECT +**
Zamak / IK10

VANDAL RESISTANT

GB-060-118

GB-060-318
(K-Pad alone)

GB-060-218

Alarm

2 wires

2 wires - green led

2 wires - red led
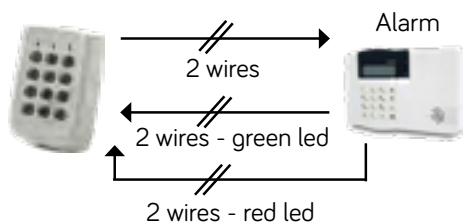
Range features:
- Dimensions: 120 x 83 x 36 mm
- 100 user codes
- Codes from 3 to 8 digits
- Buzzer
- Programming by master code
- keypad with blue backlights
- Tamper
- Operating temperature: -20° à +60°
- IP65 rated

Separate RF receiver required:
Ref. GB-150-011
or
Ref. FD-020-191
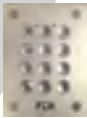
FD-060-164

I3 Stainless steel keypad with backlights
Dimensions (L x H x D) : 135mmx100mmx43mm.
Flush mounted. Stainless steel front plate 2,5mm thick.
Programming through the front frame via a master code.
2 dry contacts and 1 exit collector open.
Wide Braille buttons with backlights diam. 16mm, blue leds.
Removable terminal connections, led and operating buzzer.
Rain hood in option to adapt it in surface mount keypad (part number : 60-030-277).
Power supply : 12Vac or 12Vdc

GB-060-118

Surface mount Kpad 2 relays (8A and 1A)
Keypad under blister especially designed for automation applications (alarms, gates...).
Dimensions (L x H x D) : 120mmx83mmx36mm.
Material : polycarbonate housing. IP65 rated.
Capacity : 100 user codes.
Codes from 3 to 8 digits.
3 leds : yellow (for the keypad), green and red (status leds), buzzer.
Lock release time : 1 to 99 seconds (monostable or bistable)
Programming by master code.
Keypad with blue backlights.
Push to exit input. Tamper.
Clock input for time management.
Power supply : 12-24 Vac/Vdc.
Operating temperature : -20° to +60°

IP 65

GB-060-218

Surface mount Kpad PROTECT+ 2 relays (8A and 1A)
VANDAL RESISTANT
Keypad under blister especially designed for automation applications (alarms, gates...).
Dimensions (L x H x D) : 120mmx83mmx36mm.
Material : Zamak housing. Ultra resistant material. IP65 and IK10 rated.
Capacity : 100 user codes.
Codes from 3 to 8 digits.
3 leds : yellow (for the keypad), green and red (status leds), buzzer.
Lock release time : 1 to 99 seconds (monostable or bistable)
Programming by master code.
Keypad with blue backlights.
Push to exit input. Tamper.
Clock input for time management.
Power supply : 12-24 Vac/Vdc.
Operating temperature : -20° to +60°.

IP 65
IK10

GB-060-318

Wireless Kpad 4 relays
Dimensions (L x H x D) : 120mmx83mmx36mm.
Material : polycarbonate housing. - IP65.
Capacity : 100 user codes.
Codes from 3 to 8 digits.
3 leds : yellow (for the keypad), green and red (status leds), buzzer.
Lock release time : 1 to 99 seconds (monostable or bistable)
Programming by master code.
Keypad with blue backlights.
Push to exit input. Tamper
Clock input for time management.
Power supply : 12-24 Vac/Vdc.
Operating temperature : -20° to +60°.

IP 65

GB-060-319

Wireless kit Kpad + Receiver
Kit including 1 Wireless Kpad GB-060-318
+ 1 Easy Door Receiver GB-150-006.

Standalone

FDi

TRANSIT+

Features and benefits

The Transit + Controller is an advanced access controller designed by FDI. Doors and credentials are set-up via an App and a Bluetooth connection.

The controller manages up to two MIFARE Plus® readers and/or receivers. As these are based on our own protocol, they offer unique security and features.

TRANSIT+

> **2 reader ports**

> **Easy fob enrolment via NFC smartphone feature and App**

> **Secure Bluetooth® communication**

> **FDI MIFARE Plus® readers for enhanced security**

> **Upgradable firmware via the App**

> **Designed for wall mount or standard DIN Rail mounting**

TRANSIT+

MULTIPLE READER TECHNOLOGY PROX / RF

EASY ENROLMENT

NFC

SIMPLE UPDATE ON SITE

Bluetooth

SECURITY

CONTROLLER PROTECTED BY PASSWORD

MIFARE+ CREDENTIALS TO AVOID CLONING
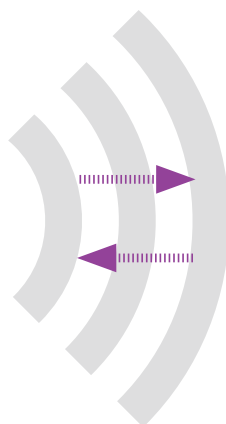
CONTROLLER

FD-105-001

Transit+ Controller
Dimensions : 183mmx234mm.
2 doors.
Bluetooth management.
5000 credentials.
Power Supply 12V DC (up to 0.8A with 1 reader).
DC output 80mA per reader.
Door relay 24V 2A.
REX input NO, protected by optocoupler.
Operating temperature -10° + 60°C.

Download TRANSIT+

*Available soon on IOS

GET IT ON
Google Play

Download on the
App Store

FDi

EASY DOOR ACCESS CONTROL

Features and benefits

Easy Door Controller is a single door controller designed for small residential applications which can easily be integrated to your project and does not require many electrical connections.

Virtual network combines the advantages of standalone and network systems. Thanks to this new technology, you don't need anymore to connect every controller to a single network in order to manage access remotely or on site.

No more expensive IP infrastructure costs, complicated configuration, Easy Door Controller will ensure optimum safety, maximum configuration flexibility and an easy use.

Master key solution.

You manage your access control on-site, you have few users and you only need few keys ? Therefore, you can use Easy Door Controller/Receiver simply and easily in standalone mode.
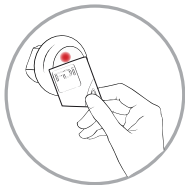
1 Swipe the master key.

Press button 1 of the master remote control to start programming.
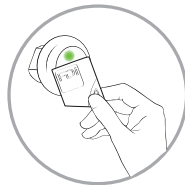
2 Enroll the residents' keys by swiping them.

Enroll the residents' remotes by pressing their button 1.
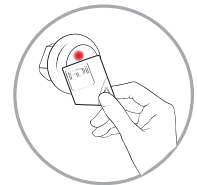
3 Swipe the master key.

Press again the button of the master remote control to end programming.

Functions	Standalone	Virtual network
Ease of use	X	X
Safety	X	X
Efficiency	X	X
User profiles	2	4 and +
Number of users	1500	2000
Pass keys		X
Event management		X
Free access		X
Remote management		X
Coloured keys		X
Name Doors / Users / Buildings		X
Create keys for external partners		X
Import / Export residents names		X
Export site configurations to Excel		X
Delete keys		X

CONTROLLER

GB-140-089

Easy Door Controller
Dimensions (L x H x D) : 70mmx70mmx20mm.
Operating temperature : -20°C to +55°C.

GB-150-011

Easy Door Receiver
Dimensions (L x H x D) : 120mmx100mmx40mm
Remote control reading distance : 100m
Power supply : 12/24 Vac or Vdc
Manages 2 relays :
Relay 1 RF and/or proximity - Relay 2 RF only
Removable memory
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ALL READERS AND RECEIVERS
FOR ACCESS CONTROL

READERS
RECEIVERS

FDi

2-SMART READERS

**IK 10
IP 65**

Features and benefits

A new design with more technology inside. Smart & secured communication between the reader and the controller:

- AES 128bits encryption via the 2 wires communication
- Full monitoring of your installation
- IK10 and IP65 (except Alpha and mushroom readers)
- IPassan / Easy Door / Transit + compatible

Possibility to read standard proximity credentials (Mifare Classic®, Mifare Plus®, Mifare Desfire®) or Bluetooth® virtual credentials. Secured access with double authentication pin & prox.

> **Encrypted 2 wires bus for a secure communication reader - controller**

> **Firmware upgrade via the 2 wires smart communication**

> **Full monitoring of the installation (wiring, short cut...)**

> **Easy and cost efficient installation: only 2 wires between the controller and the reader.**

You can get the benefits of this new range of readers with a Wiegand and RS485 output, adapted to your projects requirements.

FD-020-220 P40 Mullion reader 13.56MHZ 2 wires
Dimensions (L x H x D) : 90mmx47mmx23mm
Power supply : 12V (supplied by the controller via the 2 wire connection)
Max cable distance : 100m -8/10 AWG20
Reading distance : up to 40 mm (MIFARE Classic) - BLE : according to the setting
Operating temperature : -20° to +60°C

FD-020-221 P80 Mullion reader 13.56MHZ 2 wires
Dimensions (L x H x D) : 90mmx85mmx25mm
Power supply : 12V (supplied by the controller via the 2 wire connection)
Max cable distance : 100m -8/10 AWG20
Reading distance : up to 40 mm (MIFARE Classic) - BLE : according to the setting
Operating temperature : -20° to +60°C

The P40 and P80 reader are 2-SMART readers developed for the advanced scalable access controller iPassan. These 2-SMART readers are based on our own protocol and offers unique security and features. With its modern design it can easily be integrated in your commercial and residential projects. In addition to the RFID Mifare® technology, this reader offers the possibility to work with Bluetooth virtual credentials.

Main features
. High security and easy installation with the 2 wire output and encrypted bus
. Proximity reader Mifare® Classic and Mifare® Plus (128 bit AES encryption)
. Secured Bluetooth reading technology for access with virtual credentials
. LED indicators
. Surface mount with terminal output – IP65 (subject to compliance with the installation instructions)
. Online and remote upgradable firmware

FDi

FD-020-222 PK80 Pin and Prox reader 13.56MHZ 2 wires
Dimensions (L x H x D) : 90mmx85mmx25mm
Power supply : 12V (supplied by the controller via the 2 wire connection)
Max cable distance : 100m -8/10 AWG20
Reading distance : up to 40 mm (MIFARE Classic) - BLE : according to the setting
Operating temperature : -20° to +60°C

The new PK80 reader is a 2-SMART pin and prox reader developed for the advanced scalable access controller iPassan. This 2-SMART reader is based on our own protocol and offers unique security and features such as double authentication with proximity key and pin code. With its modern design it can easily be integrated in your commercial and residential projects. In addition to the RFID Mifare® technology, this reader offers the possibility to work with Bluetooth virtual credentials and code.

Main features
. High security and easy installation with the 2 wire output and encrypted bus
. Proximity reader Mifare® Classic and Mifare® Plus (128 bit AES encryption)
. Secured Bluetooth reading technology for access with virtual credentials
. LED indicators
. Surface mount with terminal output – IP65 (subject to compliance with the installation instructions)
. Online and remote upgradable firmware.

FD-020-227 2SMART Alpha reader 13.56MHZ black
Dimensions (L x H x D) : 125mmx90mmx25mm
Power supply : 12V (supplied by the controller via the 2 wire connection)
Max cable distance : 100m -8/10 AWG20
Reading distance : up to 40 mm (MIFARE Classic) - BLE : according to the setting
Operating temperature : -20° to +60°C

The Alpha reader is a 2-SMART reader developed for the advanced scalable access controller iPassan. This 2-SMART reader is based on our own protocol and offers unique security and features. It has been designed to integrate the Urmet Alpha modular Door Entry System. In addition to the RFID Mifare® technology, this reader offers the possibility to work with Bluetooth virtual credentials.

Main features :
High security and easy installation with the 2 wire output and encrypted bus.
Proximity reader Mifare® Classic and Mifare® Plus (128 bit AES encryption).
Secured Bluetooth® reading technology for access with virtual credentials .
LED indicators.
Online and remote upgradable firmware.

FD-020-086 Vandal resistant surface munt reader 13.56MHz - 2 wires
Dimensions (L x H x D) : 100mmx45mmx16mm
Power supply : 12V CC (supplied by the controller)
Current : 50mA
Reader connection <-> Controller : 2 wires / 100m max
Reading distance : up to 15 mm
Operating temperature : -10° to +50°C
Buzzer

The vandal resistant surface mount reader is a 13.56MHz proximity reader used with Easy Door & IPassan controllers. Elegant and durable, it is ideal for indoor and outdoor installations. This reader is perfect for offices, commercial properties and residential housing.

Functioning :
Led of the reader is red when it is ready to read a proximity key. When a key is presented to the reader, the red led flashes when the key is refused and if the key is valid the led turns green during the door release time programmed.

FD-020-175 Mushroom reader 13.56MHz - 2 wires IPassan
Dimensions : diameter 34mm, high 30 mm
Ideal for renovation (drill diameter 25mm)
Power supply : supplied by the controller
Reader connection <-> Controller : 2 wires / 100m max (for FD-030-065)
Reading distance : up to 30 mm
IP 53 rated
Fireproof : certified M2
ABS box fireproof
Operating temperature : -20°C to +70°C

The mushroom reader 13.56MHz is a compact and vandal resistant reader which allows reading of proximity keys for residents and proximity card VIGIK for external agent (La Poste ,EDF-GDF, France Télécom…)

Waterproof, this reader is ideal for an outside use. This reader can easily be installed on all types of entry panels. It fits into holes of 25mm diameter.

FDi
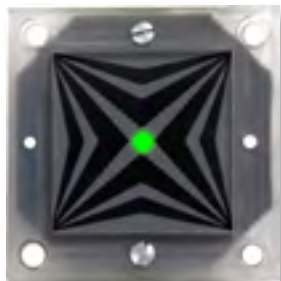
FD-020-007 OEM 40X40 reader 13.56MHz - 2 wires
UNIVERSAL READER
Dimensions (L x H x D) : 60mmx60mmx20mm
Power supply : 12 Vdc (supplied by the controller)
Current : 50mA
Reader connection <-> Controller : 2 wires / 100m max
Reading distance : up to 40 mm
Operating temperature : -20°C to 70°C

This reader 40x40 fits perfectly in an intercom panel and provides significant reading distance of 40mm.

Functioning :
Led of the reader is red when it is ready to read a proximity key. When a key is presented to the reader, the red led flashes when the key is refused and if the key is valid the led turns green during the door release time programmed.

FD-020-176 Sinthesi S2 reader 13.56MHz - 2 wires
Frame dimensions : 85mmx85mm.
Reader with Sinthesi frame/Sinthesi S2 frame.
Two-color LED indicating the operating status of the reader : red to indicate that the reader is in use and green when the door is controlled.

FD-020-132 Sinthesi steel reader 13.56MHz - 2 wires
Frame dimensions : 85mmx85mmx16mm.
Reader with Sinthesi Steel frame.
Two-color led indicating the operating status of the reader : red to indicate that the reader is in use and green when the door is controlled.

FD-020-016 STAINLESS STEEL READER 13.56MHz - 2 WIRES
Frame dimensions (H x L): 110mmx110 mm.
Embedded box dimensions (H x L x D): 94mmx94mmx30mm.
Installed in an embedded box with 316L stainless steel front plate.
Fixed by vandal resistant screw.
Two-color led indicating the operating status of the reader : red to indicate that the reader is in use and green when the door is controlled.
IP-53 rated.

2 WIRE RECEIVERS

IP 67

FD-020-190 RF receiver 433MHz - 2 wires
FD-020-191 RF receiver 868MHz - 2 wires

Dimensions (L x H x D) : 155mm x 91mm x 34mm.

Power supply : 12V (supplied by the controller).

Wire gauge : 4x2 wires + 2 gnd / 100m max.

IP rating : IP67.

Long range : up to 100 m in open field.

2 loop inputs.

Operating temperature : -20°C to +60°C.

FDi

WIEGAND AND/OR RS485 READERS

Features and benefits

FDI Matelec designs and produces dual technology readers. The installer toggles from one mode to another via a switch.
- RS485 is a proprietary bus authorizing 1000 meters between controller and reader. FDI Matelec RS485 Bus has all the properties of the 2Smart bus.
That is to say :
. data security thanks to AES128 bits,
. the possibility to update the firmware remotely,
. Bluetooth.

- Wiegand is a standard protocol. Wiegand readers are compatible with most access control systems. They are used with FDI keys. FDI can provides 26 bits, 30 bits, 34 bits or more. Do not hesitate to contact us!

FDI Wiegand readers make the site administration easier with a unique key solution. Using the RF receiver to allow vehicles access to a car park, it is possible to use the remote dual-technology FDI with its built-in proximity tag to use with proximity readers.

Wiegand receivers need to be connected to controllers that are compatible with Wiegand protocol. The serial number of the remote must be entered only once into the controller.

Full range of Wiegand readers and receivers
Compatible with all the controllers compatible with Wiegand protocol.
Customization possible (26, 32, 34 bits etc) on request.
Work with proximity keys GB-010-012, dual technology remote controls
FD-010-169 and ISO cards FD-010-070.
Maximum distance for wiring between the controller and the reader : 100m
Wire gauge : 5 to 8 wires to the controller (depend of the part number).
Operating temperature : -20°C to 60°C.

Any Controller Wiegand Input

FDI Wiegand proximity reader

FDI Wiegand receiver
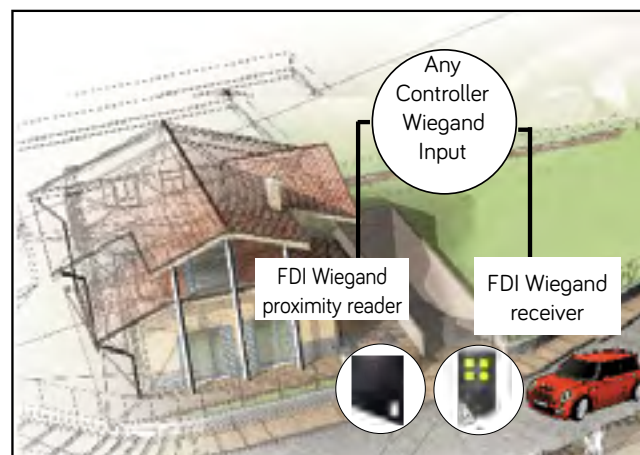
FD-020-224 P40 Mullion reader 13.56MHZ
Dimensions (L x H x D) : 90mmx47mmx23mm.
Power supply : 12V (supplied by the controller).
Max cable distance : Wiegand 100m -8/10 AWG20 up to 8 wires.
RS485 1000m for the RS485 bus 6/10 AWG24. The PSU could be local.
Reading distance : up to 40 mm (MIFARE Classic).
Operating temperature : -20° to +60°C.

FD-020-225 P80 Mullion reader 13.56MHZ
Dimensions (L x H x D) : 90mmx85mmx25mm.
Power supply : 12V (supplied by the controller).
Max cable distance : Wiegand 100m -8/10 AWG20 up to 8 wires.
RS485 1000m for the RS485 bus 6/10 AWG24. The PSU could be local.
Reading distance : up to 40 mm (MIFARE Classic).
Operating temperature : -20° to +60°C.

Main features :
. Open standard Wiegand
. Proximity reader Mifare® Classic and Mifare® Plus (128 bit AES encryption)
. Secured Bluetooth reading technology for access with virtual credentials *(coming soon)*
. LED indicators
. Surface mount with terminal output – IP65 (subject to compliance with the installation instructions)

FD-020-226 PK80 Pin & Prox reader 13.56MHZ
Dimensions (L x H x D) : 90mmx85mmx25mm.
Power supply : 12V (supplied by the controller).
Max cable distance : Wiegand 100m -8/10 AWG20 up to 8 wires.
RS485 1000m for the RS485 bus 6/10 AWG24. The PSU could be local.
Reading distance : up to 40 mm (MIFARE Classic).
Operating temperature : -20° to +60°C.

The new PK80 reader is a Wiegand/RS485 pin and prox reader developed for the advanced scalable access controller iPassan Wiegadn/RS485 or third party access control (Wiegand).
The Wiegand reader version is based on universal protocol. This Wiegand/RS485 readers offers unique security and features such as double authentication with proximity key and pin code. With its modern design it can easily be integrated in your commercial and residential projects.
In addition to the RFID Mifare® technology, this reader offers the possibility to work with Bluetooth RS485 virtual credentials and code.

Main features
. High security and easy installation with the Wiegand output and encrypted bus
. Proximity reader Mifare® Classic and Mifare® Plus (128 bit AES encryption)
. Secured Bluetooth reading technology for access with virtual credentials (RS485).
. LED indicators
. Surface mount with terminal output – IP65 (subject to compliance with the installation instructions)
. Online and remote upgradable firmware (RS485).

FD-020-230 Alpha reader 13.56MHZ black
Dimensions (L x H x D) : 125mmx90mmx25mm.
Power supply : 12V (supplied by the controller).
Max cable distance : Wiegand 100m -8/10 AWG20 up to 8 wires.
RS485 1000m for the RS485 bus 6/10 AWG24. The PSU could be local.
Reading distance : up to 40 mm (MIFARE Classic).
Operating temperature : -20° to +60°C.

The Alpha reader is a Wiegand/RS485 mode reader developed for the advanced scalable access controller iPassan. This reader is based on universal protocol and offers unique security and features.
It has been designed to integrate the Urmet Alpha modular Door Entry System. In addition to the RFID Mifare® technology, this reader offers the possibility to work with Bluetooth virtual credentials.
Main features :
High security and easy installation with the Wiegand output and encrypted bus.
Proximity reader Mifare® Classic and Mifare® Plus (128 bit AES encryption).
Secured Bluetooth® reading technology for access with virtual credentials .
LED indicators.

GB-020-098 Wiegand vandal resitant surface mount reader 13.56MHz
Dimensions (L x H x D) : 100mmx45mmx16mm.
Power supply : 12V CC (supplied by the controller).
Current : 50mA.
Reader connection <-> Controller : Wiegand 5 wires / 100m max.
Reading distance : up to 15 mm.
Operating temperature : -10° to +50°C.
Buzzer.

The vandal resistant surface mount reader is a 13.56MHz proximity reader. Elegant and durable, it is ideal for indoor and outdoor installations. This reader is perfect for offices, commercial properties and residential housing.

Functioning :
Led of the reader is red when it is ready to read a proximity key. When a key is presented to the reader, the red led flashes when the key is refused and if the key is valid the led turns green during the door release time programmed.

FD-025-082 I3 Stainless Steel backlit keypad - 2 leds
Dimensions (L x H x D): 135mmx100mmx43mm.
Flush mount. Stainless steel frame 2,5mm thick.
Large backlit Braille buttons diameter 16mm, blue leds.
Removable terminal connections, led and operation buzzer.
Rain hood to adapt it as surface mount in option (pn: 60-030-277).

FDi
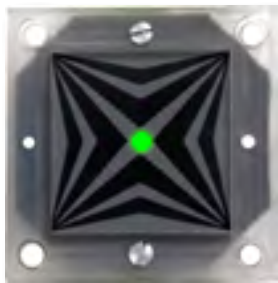
FD-020-167 Wiegand OEM 40X40 reader 13.56MHz
Dimensions (L x H x D) : 60mmx60mmx20mm.
Power supply : 12 Vdc (supplied by the controller).
Current : 50mA.
Reader connection <-> Controller : Wiegand 5 wires/ 100m max.
Reading distance : up to 40 mm.
Operating temperature : -20°C to 70°C.

This reader 40x40 fits perfectly in an intercom panel and provides significant reading distance of 40mm.

Functioning :
Led of the reader is red when it is ready to read a proximity key. When a key is presented to the reader, the red led flashes when the key is refused and if the key is valid the led turns green during the door release time programmed.

FD-020-171 Wiegand Sinthesi S2 reader 13.56MHz
Frame dimensions : 85mmx85mm.
Reader with Sinthesi frame/Sinthesi S2 frame.
Two-color LED indicating the operating status of the reader : red to indicate that the reader is in use and green when the door is controlled.

FD-020-160 Wiegand Sinthesi steel reader 13.56MHz
Frame dimensions : 85mmx85mmx16mm.
Reader with Sinthesi Steel frame.
Two-color led indicating the operating status of the reader : red to indicate that the reader is in use and green when the door is controlled.
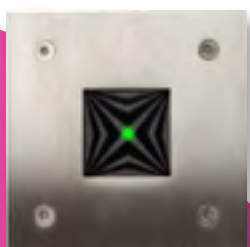
FD-020-014 Wiegand Stainless steel reader 13.56MHz
Frame dimensions (H x L): 110mmx110 mm.
Embedded box dimensions (H x L x D): 94mmx94mmx30mm.
Installed in an embedded box with 316L stainless steel front plate.
Fixed by vandal resistant screw.
Two-color led indicating the operating status of the reader : red to indicate that the reader is in use and green when the door is controlled.
IP-53 rated.

WIEGAND RECEIVER

IP 67

FD-020-185 RF receiver 433MHz - Wiegand 34/58 BITS
FD-020-186 RF receiver 868MHz - Wiegand 34/58 BITS
58 bits allows to record 14 digits of Mifare+ remote control thanks to configuration remotes included.
Dimensions (L x H x D) : 155mmx91mmx34mm.
Power supply : 12-24 VAC/DC (supplied by the controller).
Wire gauge : 4x2 wires + 2 gnd / 100m max.
IP rating : IP67.
Long range : up to 100 m in open field.
2 loop inputs.
Operating temperature : -20°C to +60°C.

100 m

LED 1,2,3 or 4 shows which channel is active.
The reception LED also indicates the reception quality.

The FDI Wiegand RF receiver has been designed to be used with third party controllers which are compatible with the 34 or 58 bit Wiegand protocol.

It offers 4 outputs, one per channel, and may be combined with the following remote controls and antennas. FDI transmitters have 4 buttons, each button is linked to a separate Wiegand output on the receiver. So one button could be used for a gate and another for a door etc.

433 MHz	FD-010-169 (125KHz prox)	FD-010-171 (13.56MHz prox)	FD-500-025
868 MHz		FD-010-1172 (13.56MHz prox)	FD-500-036

FDi

		Mullion	Vandal resistant	OEM	Stainless steel	Sinthesi S2	Sinthesi Steel
Readers 3 wires	125 KHz	 FD-020-080	 FD-020-084	 FD-020-006	 FD-020-005	 FD-020-168	 FD-020-131
	13.56 MHz	 GB-020-124	 FD-020-142	 FD-020-144	 FD-020-177	 FD-020-170	 FD-020-149
Readers 2 wires	125 KHz	 FD-020-117 (terminal)	 FD-020-118 (terminal) FD-020-093 (pigtail)				
	13.56 MHz	 FD-020-208 (M+)	 FD-020-086	 FD-020-007 (M+)	 FD-020-016 (M+)	 FD-020-176	 FD-020-132
Readers RS485	13.56 MHz						
5 wires Wiegand or Dataclock	125 KHz	 W 26 bits FD-020-087 W 30 bits FD-020-083 W 34 bits FD-020-088 Data/clock FD-020-082	 W26 bits FD-020-090 W 30 bits FD-020-085 W 34 bits FD-020-091 Data/clock FD-020-089	 W 26 bits FD-020-048 W 30 bits FD-020-047 W 34 bits FD-020-051 Data/clock	 W 26 bits W 30 bits FD-020-014 W 34 bits Data/clock FD-020-045	 W 26 bits FD-020-189	 W 26 bits FD-020-188 W 34 bits FD-020-141
	13.56 MHz MIFARE+	 W 26 bits W 30 bits W 34/58 bits FD-020-217 Data/clock	 W 26 bits W 30 bits W 34 bits GB-020-098 Data/clock	 Reader without led W 34 bits FD-020-167		 W 34bits FD-020-171	 W 34bits FD-020-160

| "Mushroom" | Elekta | | P40 reader | P80 reader | PK80 reader | Alpha reader |
	Glass	Steel				
FD-030-005	GB-020-125	FD-020-174				
	FD-020-200	FD-020-158				
FD-020-175	FD-020-210	FD-020-166	FD-020-220	FD-020-221	FD-020-222	FD-020-227
			FD-020-224	FD-020-225	FD-020-226	FD-020-230
	W34 bits FD-020-161	W34 bits FD-020-157	FD-020-224	FD-020-225	FD-020-226	FD-020-230

FDi

2-SMART PANELS

2-SMART
PANELS

2voice

FDi

ONLINE MANAGEMENT

Features and benefits

Full integration in one system.
Our 2-SMART panels integrate elegantly into URMET 2-VOICE system.

ipassan

> - **Security (no built-in relay)**
> - **Event logging**
> - **Display management (name programming)**
> - **Direct call on 3rd and 4th buttons**
> - **Management of alphanumeric call codes**
> - **Management of communication time**
> - **Built-in loop**

ipassan

ACCESS CONTROL

Create, change, delete keys, doors, names, time profiles Manual commands.

INTERCOM INTEGRATION

Set-up panel display
View call logging
Increase security.

LIFT MANAGEMENT

No additional decoder required
Possibility to manage the lift via outputs or HLI interface.

CCTV INTEGRATION

View the recorded or live video stream via the CCTV system.

RESIDENT PORTAL

Allows the resident to book an asset or a car spot for a visitor.

BOOKING MANAGEMENT

Allows the manager to supervise his facilities and approve or reject booking requests.

IPASSAN MANAGER

- > Simple and intuitive interface
- > Definition of user profiles
- > Storage and security of your data
- > Free web application on line, unlimited updates
- > Car park management

FDi

2-SMART PANELS

DDA COMPLIANT

- > Fully compatible with Urmet 2VOICE system
- > Information on the display
- > Vocal synthesis
- > Optimized installation and maintenance
- > Magnetic loop (DDA compliant)
- > Easy firmware upgrade
- > Capacity 4 000 appartments
- > Embedded box on hinges and vertical adjustment
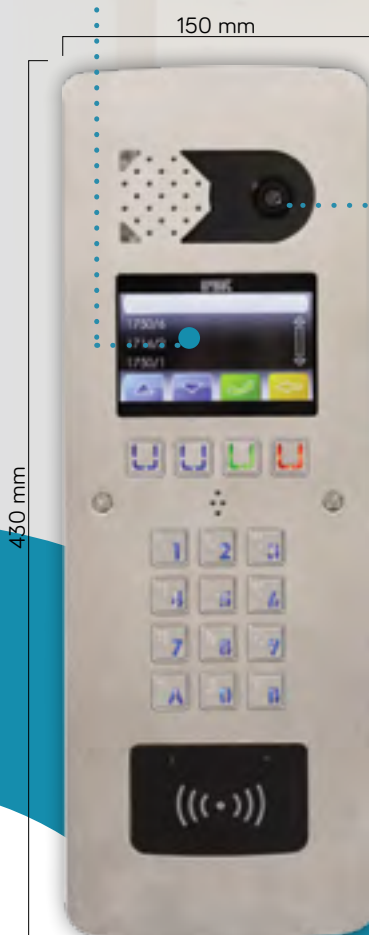- > Depth of installation 60 mm
- > IK08 and IP54
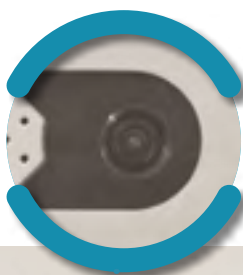
Bright 4" TFT screen

Wide angle camera 120 degrees
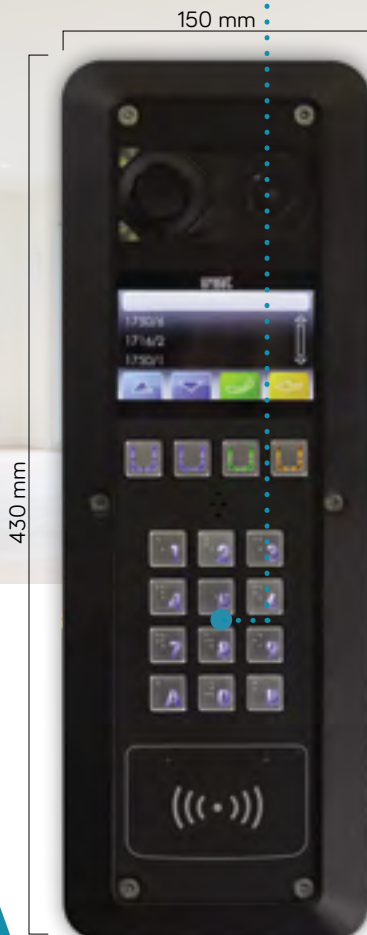
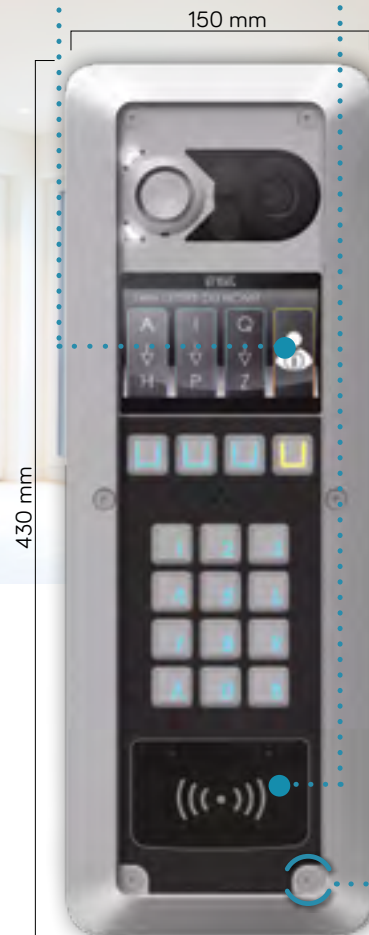Backlit Braille buttons

Possible customization of 3rd and 4th buttons

Built-in reader

150 mm

150 mm

150 mm

430 mm

430 mm

430 mm

VR screws

STAINLESS STEEL
FD-603-003

ZAMAC BLACK
FD-603-053

ZAMAC GREY
FD-603-051

2voice

PANELS

FD-603-003   **Stainless Steel panel**
Dimensions : 430mmx150mmx60mm.

FD-603-053   **Zamac black panel**
Dimensions : 430mmx150mmx60mm.

FD-603-051   **Zamac grey panel**
Dimensions : 430mmx150mmx60mm.

OPTIONS

UF-500-502   **Surface mount box including rain hood (stainless steel)**
Dimensions : 430mmx150mmx100mm.

UF-500-503   **Surface mount box including rain hood (black)**
Dimensions : 430mmx150mmx100mm.

UF-500-504   **Surface mount box including rain hood (grey)**
Dimensions : 430mmx150mmx100mm.

FD-500-570   **2voice interface for Urmet panels**
No need for this interface if you use our 2-SMART panel. On the other hand, to manage an URMET 2VOICE panel, with our IPASSAN access control system, you have to use our 2VOICE interface to take advantage of a maximum of functionalities.
Event logging (door calls, door opening from the apartment, lift management) Increased security through remote relay.
Lift management by IPASSAN for visitors and resident.

Panels

FDi
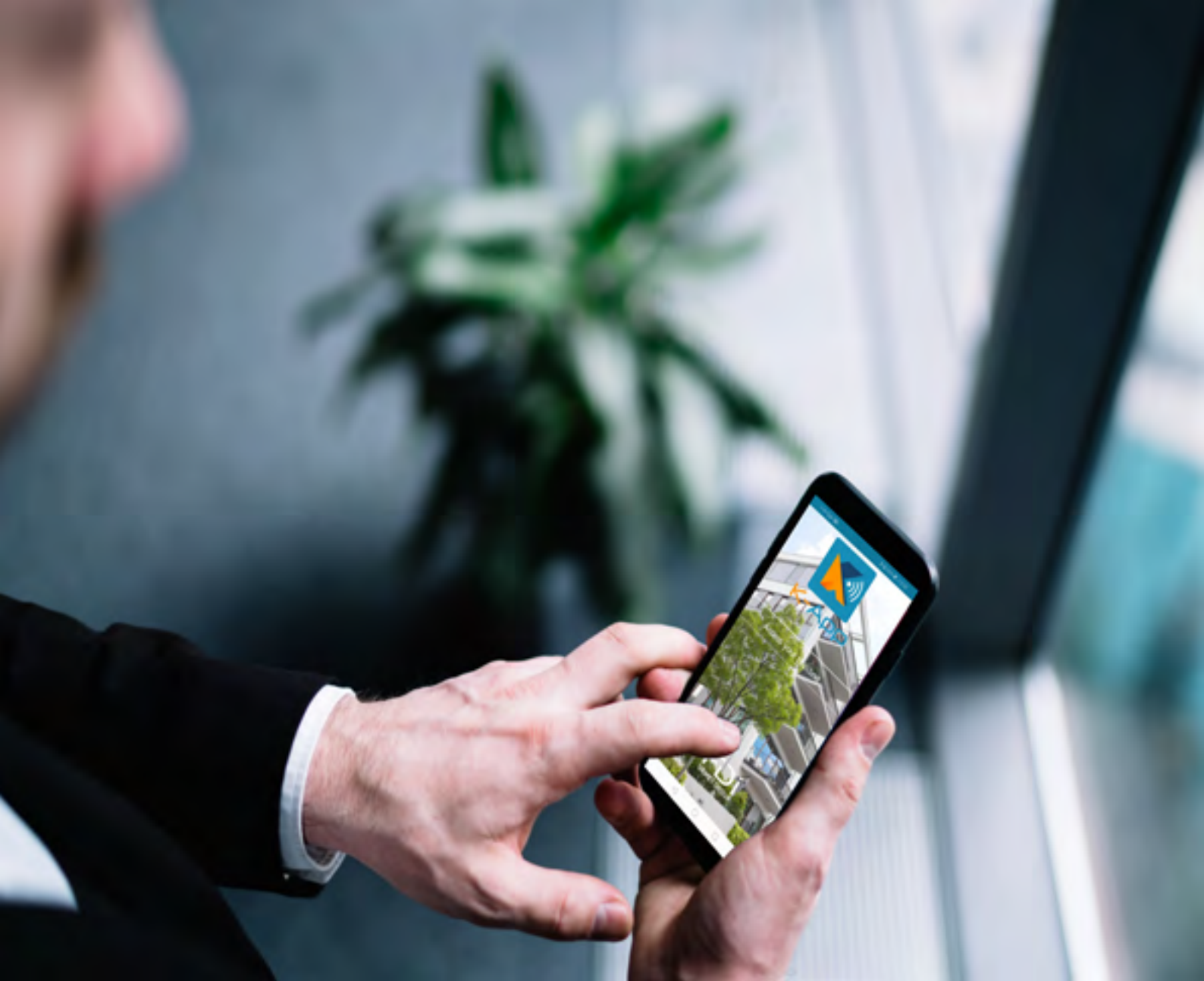
ALL KEYS, CARDS, REMOTES CONTROLS AND VIRTUAL CREDITS
FOR ACCESS CONTROL

CREDENTIALS
KEYS, CARDS, REMOTES, VIRTUALS

PROXIMITY KEYS, ISO CARDS AND REMOTE CONTROLS

Features and benefits

The proximity keys are IP68 and IK08 rated (waterproof and shock resistance). They have a metal eyelet to be placed on a key ring and contain a code which can not be modified with 8 hexadecimal digits in Mifare and 14 digits in Mifare+. The uniqueness of the key UID is guaranteed. The code is engraved to simplify programming and identification key.

Possibility of personalization by printing or molding of the hull.
The 125KHz proximity keys are compatible with all FDI 125KHz readers and 13.56MHz keys with all FDI 13.56MHz readers.

PROXIMITY KEYS

GB-010-012

Proximity keys 125KHz grey
Dimensions (L x H x D) : 49.5mmx36mmx7mm
IP68 - IK08 rated
Engraving of a 8 digits alphanumerial number
Counterbore to prevent erasure of the number
Reading distance of 4cm depending on the reader
Operating temperature : -10°C to +50°C

GB-010-010 — **Proximity keys 13.56MHz black**
FD-010-028 — **Proximity keys 13.56MHz blue**
FD-010-029 — **Proximity keys 13.56MHz red**
FD-010-030 — **Proximity keys 13.56MHz green**
FD-010-078 — **Proximity keys 13.56MHz yellow**
Dimensions (L x H x D) : 49.5mmx36mmx7mm
IP68 - IK08 rated
Engraving of a 8 digits alphanumerial number
Counterbore to prevent erasure of the number
Reading distance of 4cm depending on the reader
Operating temperature : -10°C to +50°C

GB-010-200 — **Proximity keys 13.56MHz black Mifare+**
GB-010-228 — **Proximity keys 13.56MHz blue Mifare+**
GB-010-229 — **Proximity keys 13.56MHz red Mifare+**
GB-010-230 — **Proximity keys 13.56MHz green Mifare+**
**GB-010-278** — **Proximity keys 13.56MHz yellow Mifare+**
Dimensions (L x H x D) : 49.5mmx36mmx7mm
IP68 - IK08 rated
Engraving of a 14 digits alphanumerial number
AES 128 bits encryption EAL 4+
Counterbore to prevent erasure of the number
Reading distance of 4cm depending on the reader
Operating temperature : -10°C to +50°C

ISO proximity cards have a unique serial number and are coded in factory, 4 billion combinations are possible. It can be customized with a logo and / or a photo.

Packs of 125KHz ISO cards are compatible with all FDI 125KHz readers and 13.56MHz packs of cards are compatible with all FDI 13.56MHz readers.
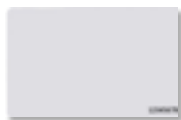
ISO CARDS
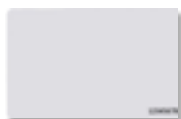
FD-010-070   **Pack of 10 ISO cards 125KHz**
Dimensions (L x H x D) : 85mmx54mmx1mm
Engraving of a 8 digits alphanumerical number
Credit card size
The code is on the cards to program and identify them easily.
Reading distance of 6cm depending on the reader
Operating temperature : -20°C to +50°C

FD-010-051   **Pack of 10 ISO cards 13.56MHz Mifare**
FD-010-175   **Pack of 10 ISO cards 13.56MHz Mifare+**
Dimensions (L x H x D) : 85mmx54mmx1mm
Engraving of a 8 digits alphanumerical number
Credit card size
The code is on the cards to program and identify them easily.
Reading distance of 6cm depending on the reader
Operating temperature : -20°C to +50°C

CUSTOMIZATION

Simple and efficient, the customization of key associates and reinforces your image to the daily lives of users.

Range of modern, ergonomic forms, integration of brands, logos, button icons, we do our utmost to satisfy you.

Contact us for a quote !

FDi

Thanks to the integrated proximity and four buttons, the remote is adapted to many situations. It is no longer necessary to have a remote plus a key, for example, a button can control a gate, the second one manages the garage door and the proximity is used for pedestrian access.

The remote controls are designed to last thanks to a metal eyelet for key ring, the engraving of the serial number on a recessed area and IP54 certification.

For read only remotes :

These remotes are added into the software by entering the engraved N° or presentation of the remote control on an encoder.

Only for read and write remotes :

At the office, the user selects the software access profiles for proximity and then encodes the remote.

At the first use on site, the authorizations contained in the remote are transmitted to the controller. Access is granted or denied according to pre-defined rights.

The remotes have a metal eyelet to be placed on a key ring. It contains a code of 8 hexadecimal words which can not be modified. The uniqueness of the remote control is guaranteed. The code is written to simplify programming and identification.

REMOTE CONTROL

FD-010-169	**Mifare combined remote control 125KHz/433MHz - 4 yellow buttons**
FD-010-171	**Mifare combined remote control 13.56MHz/433MHz - 4 grey buttons**
FD-010-172	**Mifare combined remote control 13.56MHz/868MHz - 4 blue buttons**

Dimensions (L x H x D) : 79mmx38mmx12mm

Simplified programming thanks to a common serial N° for proximity and RF (IPassan, Transit+, Easy Door Receiver in standalone mode)

Power supply : flat lithium battery 3V

Engraving of a 8 digit alphanumerical number

Average life of the battery : 22000 manipulations

Operating temperature : -20°C to +70°C

FD-010-203	**Mifare combined remote control 13.56MHHz/433MHz - 4 grey buttons**
FD-010-204	**Mifare combined remote control 13.56MHz/868MHz - 4 blue buttons**

Dimensions (L x H x D) : 79mmx38mmx12mm

Simplified programming thanks to a common serial N° for proximity and RF (IPassan, Transit+, Easy Door Receiver in standalone mode)

Power supply : flat lithium battery 3V

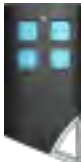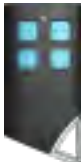Engraving of a 8 digit alphanumerical number

Average life of the battery : 22000 manipulations

Operating temperature : -20°C to +70°C

Reading distance of 6cm depending on the reader

Operating temperature : -20°C to +50°C

		MIFARE	MIFARE+
125KHz	**433 MHz**	FD-010-169	
13.56MHz	**433 MHz**	FD-010-171	FD-010-204
	868 MHz	FD-010-172	FD-010-203

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VIRTUAL CREDENTIALS

FDI smart access is meeting the needs of today and tomorrow for your access control system.

The **K-App** mobile solution improves your access control system by enabling secure access via an **Android or iOS** device using **Bluetooth Low Energy**. Virtual credentials eliminate the time spent handling physical access cards, and with everything managed online, it has never been so easy to give an access to a tenant or visitors.
The virtual credential enhances the security of your businesses or residential projects. With an intuitive and easy-to-use interface, the K-App is optimized for every users.
Get the benefits of the Bluetooth access and more using our new range of 2-Smart readers especially designed to be integrated in your projects.

K-App

> **Easy programming and using**
> **Secured Bluetooth communication**
> **Secured 2-Smart bus with AES 128bits encryption**
> **Multi-technology readers (Bluetooth®, Mifare®, Mifare Plus® and more)**
> **High functionalities with the IPassan solution**

How does it works ?

> MANAGER

Customer back-end system
Identity and user management

Customer site(s)

> USER
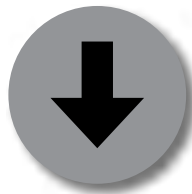
RECEIVE   **DOWNLOAD**   **REGISTER**   **GO !**

Credentials

Proximity mode
Place your smartphone in front of the reader as a standard card.

Long range mode
Press and enter !
Activate remote control mode to remotely check and open your access point.

VIRTUAL CREDENTIALS

FD-010-213   **Virtual credentials - Download K-App**

GET IT ON
Google Play

Download on the
App Store

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COMMUNICATE
WITH USERS

IP DIGITAL
NOTICE BOARD

FDi

DIGITAL NOTICE BOARD

Communicate easily from ipnoticeboard.com

The IP notice board offers the possibility to design your screen with text, photos and videos for an efficient communication with residents, visitors and customers.

- Manage your communication via FDI secure and free web software ipnoticeboard.com.
- Replace paper information panels. Environmental friendly.
- Time efficient for the manager, no need to go on site.
- Update remotely via ipnoticeboard.com, accessible online for free.
- The screens can be installed in a meeting room, the lobby of a residential building, a shopping center …

HDMI INTERFACE FOR IP NOTICE BOARD

Transform your screen

If you want to use an other screen, you can enjoy the same benefits as the FDI IP notice board by using the HDMI interface.

- Manage your communication via FDI secure site ipnoticeboard.com.
- Transform any type of screen to an IP Digital Notice Board.
- Only an HDMI port is needed on the screen and an internet connection.
- Can be installed on a screen in a meeting room, lobby of a residential building, shopping center …
- POE.

PRODUCT +

- **ECONOMIC AND ECOLOGICAL**
  No more use of paper to communicate
- **ROBUST AND VANDAL RESISTANT**
  Welded metal housing, 2 mm thick
- **QUICK AND SIMPLIFIED COMMUNICATION**
  Remote management in real time via ipnoticeboard.com
- **UNLIMITED NUMBER OF DIGITAL NOTICE BOARD IN THE CLOUD**
- **FILE SUPPORT**: Pdf, photos, videos …
- **CLOUD BASED MANAGEMENT**
- **IMPRESS VISITORS AND KEEP INFORMED EVERYBODY**

IP NOTICE BOARD SOFTWARE

Management of your communications

From ipnoticeboard.com you can :
• Have a preview of the display before sending.
• Manage scenari for each screen:
  - by setting the display time of each image from 1s to 99 s.
  - setting the start and end date of each image and video (time profile).
  - by choosing the order in which the different texts, videos or photos should appear.

You can also see :
• If the digital notice board is : connected / not connected.
• View the date of the last update.

You can broadcast text (Word, PDF), photos, Power Point presentation, Excel spreadsheet and videos in the entrance halls of buildings for an efficient communication.

• Number of digital notice board : no software limit.
• Display pictures in JPG, JPEG, PNG, PDF format (compatible in IP, GPRS, 3G mode).
• View videos in AVI, MPEG, WMV format (*IP-compatible videos only).
• File View: Power Point, Excel, Word, PDF.
• Display of texts written directly from ipnoticeboard. com + integration of visuals (eg logo).

IP NOTICE BOARD

FD-603-003 **Digital Notice Board**
17' screen
Dimensions : 545mmx370mmx50mm.
Welded metal housing 2mm thick.
Vandal proof screen with tempered glass Plastfoat 66.

FD-500-488 **HDMI interface for IP notice board**
Dimensions : 198mmx120mmx40mm.

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ALL PERIPHERALS OR OPTIONAL DEVICES
FOR ACCESS CONTROL

THE
ACCESSORIES

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BUTTONS

GB-500-250 | **Not backlit push buttons 40x100**
Front thickness : 15/10
Stainless steel 304L - Brush
Using place : profile
Fixing : by screw not supplied
Fixing drill : 2 x Ø4.3 unmilled
Type of button : NO/NC - Ø19 - Not backlit
Laser engraving "DOOR" : Yes

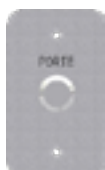**GB-500-252** | **Not backlit push buttons 60x100**
Front thickness : 15/10
Stainless steel 304L - Brush
Using place : profile
Fixing : by screw not supplied
Fixing drill : 2 x Ø4.3 unmilled
Type of button : NO/NC - Ø19 - Not backlit
Laser engraving "DOOR" : Yes

GB-500-254 | **Not backlit push buttons 90x90**
Front thickness : 15/10
Stainless steel 304L - Brush
Using place : embbeded electric box diameter 60
Fixing : by 2 vandal resistant screws supplied + tool
Fixing drill : 2 x Ø3.5 milled
Type of button : NO/NC - Ø19 - Not backlit
Laser engraving "DOOR" : Yes

FD-500-009 | **Not backlit push buttons 40x40**
Stainless steel
Fixing : From the rear (nut supplied)
Fixing drill : 2 x Ø3.5 milled
Type of button : NO/NC - Ø19 - Not backlit
Laser engraving "DOOR" : engraving on request

FD-500-010 | **Not backlit push buttons 60x100**
Stainless steel
Fixing : From the rear (nut supplied)
Fixing drill : 2 x Ø3.5 milled
Type of button : NO/NC - Ø19 - Not backlit
Laser engraving "DOOR" : engraving on request

GB-500-259   **Backlit push buttons 60x100**
Front thickness : 15/10
Stainless steel 304L - Brush
Using place : profile
Fixing : by screw not supplied
Fixing drill : 2 x Ø4.3 unmilled
Type of button : NO/NC - Ø25 - Backlit
Laser engraving "DOOR" : Yes

FD-500-260   **Backlit push buttons**
Front dimensions : without
Fixing : Bolt supplied
Type of button : NO/NC - Ø25 - Backlit

GB-500-257   **Push button for impaired 90x90**
Front thickness : 15/10
Stainless steel 304L - Brush
Using place : embbeded electric box diameter 60
Fixing : by 2 vandal resistant screws supplied + tool
Fixing drill : 2 x Ø4.3 unmilled
Type of button : NO/NC - Ø19 - Not backlit
Laser engraving "DOOR" : Yes
Braille : YES
Green led : YES
Connected buzzer card : YES

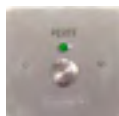**GB-500-258**   **Push button for impaired 60x100**
Front thickness : 15/10
Stainless steel 304L - Brush
Using place : profiled
Fixing : by screws not supplied
Fixing drill : 2 x Ø4.3 unmilled
Type of button : NO/NC - Ø25 - Not backlit
Laser engraving "DOOR" : Yes
Braille : YES
Green led : YES
Connected buzzer card : YES

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ELECTROMAGNETIC LOCK

FD-500-227

Electromagnetic lock with mortice munt 300kg
Voltage input : 12 VDC / 24 VDC
Power consumption :12VDC = 480 mA
                            24VDC = 240 mA
Dimensions: • Magnet   226 x 38 x 26.5 mm
                    • Counterplate   180 x 38 x 11 mm
Holding force : 300 kgs (600 lbs)
Includes : 1 electromagnetic lock, 1 counterplate, 1 bag with 8 screws, 2 Allen wrenches,
                3 washers, 2 magnet fixing screws, 1 nut and 1 counterplate bolt to mount
                the product.

FD-500-228

Electromagnetic lock surface munt with led 300kg
Voltage input : 12 VDC / 24 VDC
Power consumption :12VDC = 480 mA
                            24VDC = 240 mA
Dimensions: • Magnet   250 x 42 x 25 mm
                    • Counterplate   180 x 38 x 11 mm
Holding force : 300 kgs (600 lbs)
With integrated led and NO/NC contacts
Includes : 1 electromagnetic lock, 1 counterplate, 1 bag with 8 screws, 2 Allen wrenches,
                3 washers, 2 magnet fixing screws, 1 nut and 1 counterplate bolt to mount
                the product.
In option, fixing accessories :
• Bracket L shaped (Part number. 60-001-070)
• Bracket L and Z shaped kit (Part number. 60-001-068)

FD-500-229

Electromagnetic lock surface munt with led 550kg
Voltage input : 12 VDC / 24 VDC
Power consumption :12VDC = 480 mA
                            24VDC = 240 mA
Dimensions: • Magnet   266 x 67 x 39 mm
                    • Counterplate   180 x 60 x 13 mm
Holding force : 550 kgs (1200 lbs)
With integrated led and NO/NC contacts
Includes : 1 electromagnetic lock, 1 counterplate, 1 bag with 8 screws, 2 Allen wrenches,
                3 washers, 2 magnet fixing screws, 1 nut and 1 counterplate bolt to mount
                the product.
In option, fixing accessories :
• Bracket L shaped (Part number. 60-001-069)
• Bracket L and Z shaped kit (Part number. 60-001-067)

METAL ENCLOSURES

FD-500-499 — **Small metal enclosure for 2 IPassan modules**
Dimensions : 456 x 342 x 100mm.
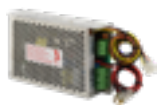PSU included (3.5A).
Switch mode.

FD-500-500 — **Large metal enclosure for 4 IPassan modules**
Dimensions : 456 x 505 x 100 mm.
PSU included (7A).
Switch mode.

POWER SUPPLY

70-001-119 — **Power supply 3,5A 13,8VDC switch mode**

70-001-120 — **Power supply 7A 13,8VDC switch mode**

70-000-457 — **Power supply 230/12VDC 1A 8500/2**

ENCODERS

FD-500-575 — **USB encoder 13,56MHz**
Dimensions : 130 x 105 x 30 mm.
Can encode keys and remot controls.
It is connected to the PC via USB cord (supplied).
Confirmation by buzzer and led.

FD-500-498 — **Universal USB encoder 13,56MHz without RF**
Dimensions : 130 x 105 x 30 mm.
Can encode keys and remote controls.
It is connected to the PC via USB cord (supplied).
Can be used with Excel file (automatcally completed)
Confirmation by buzzer and led.

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DESIGNED AND
MANUFACTURED IN FRANCE

CATGEN001GB - Printed on paper from sustainable and certified forests.

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URMET|GROUP