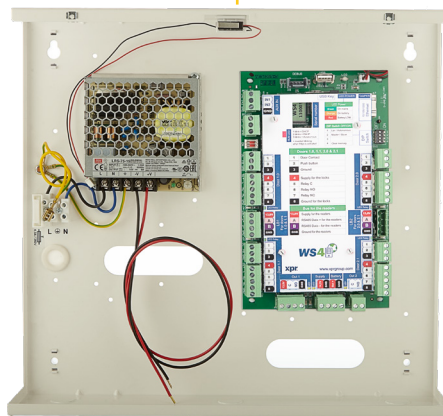# Web Access Solution

Web Access

Control everything vie the Internet, anywhere you are and with the device that you prefer to use: mobile phone, tablet or computer.

We make it easier for you to control the access to the doors of your house, office, business... No matter the physical distance.

BROWSER

WS4 CONTROLLER

RS-485 (1)

RS-485 (2)

- Capacity for 2500 users
- 250 access groups
- 50 weekly schedules
- Stores the last 50,000 events
- Airlock function: applies to 2, 3 or 4 doors
- Anti-passback function
- Anti-passback time function

- 10 operators (with one specially dedicated to the installer for the remote maintenance of the system)
- Import users
- Export events and users (CSV format)
- Easy saving of data: on a USB Key, in the WS4 internal memory (daily), or on the user interface.
- Email alerts and periodic system reports

◢ Solutions

XPR Web Access can be applied to infinite solutions. Easy to install and manage, the possibility to access the system via an Internet connection, gives you more flexibility and allows you to also be under control of multiple case scenarios. You don´t need to be worried about being present or close to the facility or building you want to protect.

Here are a few examples of cases where the Web Access system can be a great solution.

Rental apartments
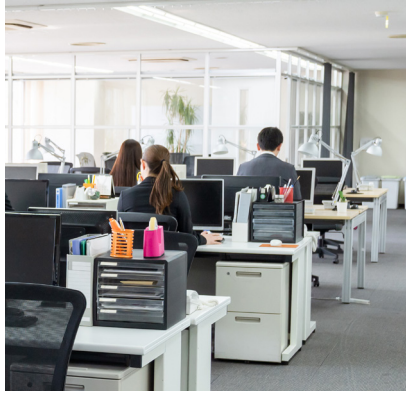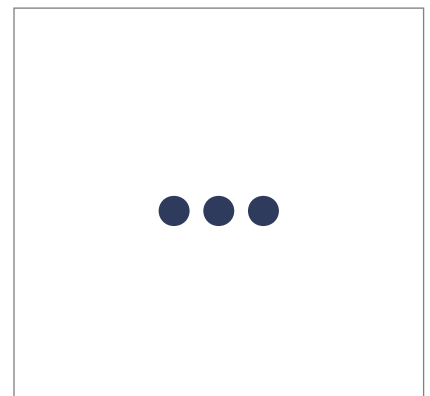
Offices

Retail shops

Co-working

Parking spaces

Rental storage rooms

Residential buildings

Elevators

And more...

Controller - Web Access Solution

WS4

The WS4 controllers are door control units that can be extended to 40 doors if needed.
Created to be installed and used very easily. There is no need to install or download any software.
There is no need to have a dedicated PC either. Everything is available online and the operators just need to register with their serial number to start using the software application.

- 100 % stand-alone
- No software to install or download
- Intuitive and ergonomic interface
- No dedicated PC
- Can be used with all types of devices: PC, MAC, Smartphone, iPhone, Tablet, iPad
- Accessible from anywhere in the world with an Internet connection
- Reduced installation time
- Adaptive web format: Adapts to the format of your equipment (Responsive Web Design)
- TCP/IP connection: 10/100/1000 Base-T – HTTP or HTTPS
- Intelligent power supply: with full discharge battery protection and protection of power supplies against short circuits

Complete visualization of the status of the system at a glance

You will be able to check quickly all the following details:

- The status of the doors and the readers
- The battery and power supply status
- The controller housing security (in case the housing could be vandalized)
- The presence or absence of alarms
- The system date and time
- The number of operators connected to the controller
- The number of users in the building

Main menu

Available in English, French, German, Spanish, Dutch, Italian, Portuguese and Czech language.

One click, and you will be able to:

- Navigate through the menu
- Visualise the events recorded
- Give order to open a door
- Lock and unlock doors

Main Advantages of the System

- 100% Web server, no dedicated PC required.

- All the Access systems can be managed from anywhere in the world, via the Internet.

- Very easy to install and use.

- Compatible with any internet browser (Explorer, Safari, Google Chrome, Mozilla, etc.)

- Created to manage several doors with different readers, the system can be extended up to 40 doors and 15 WS4 controllers (any model) per system, managing 2500 users and 250 access groups (categories).

- Once installed, the system is 100% standalone.

- XPR RS-485 compatible readers for bi-directional communication, allowing for complete technical supervision of the system (4 wires only to ease installation and possibility to install 2 readers per bus).

- The controller has a TCP/IP connection (10/100/1000 Base-T – HTTP or HTTPS), thus providing a very secure connection to reassure end users and installers.

- Our WS4 system is supplied with a new universal metal enclosure allowing to fit and mix and match any controller models required for the installation (WS4-1D-E, WS4-2D-E or WS4-4D-E).

- New enclosure supplied with 5A PSU allowing for the powerng of the complete system (controllers + readers + locking devices).

- A very versatile solution, being possible to control and combine different options: a door with anti-passback + another one without it, several doors with different functions...

- Web server alarm function which enables sending an automatic email to the installer or end user according to their access levels warning them of an alarm on the system (door forced, door opened too long, power supply malfunction, etc.).

- WS4 system also works with biometry technology and the set-up and management of these readers can be easily done with the WS4 interface.

- It is possible to connect an alarm panel that can be armed and/or disarmed very easily from our sleek MTPADPBK-RS-EH reader/keypad and does not require any specific knowledge or previous training.

- Adaptive web format: adapts to the format of your equipment (Responsive Web Design).

- Activate AUX OUT Relay when the first person enters and the last person leaves (Attenndance).

- Minimum password length of 8 characters.

- The WS4 automatically creates an internal backup on USB memory stick at 23:00 only if the programming has been changed. A maximum of 15 backups are retained.

Simple and efficient programming for users and user access
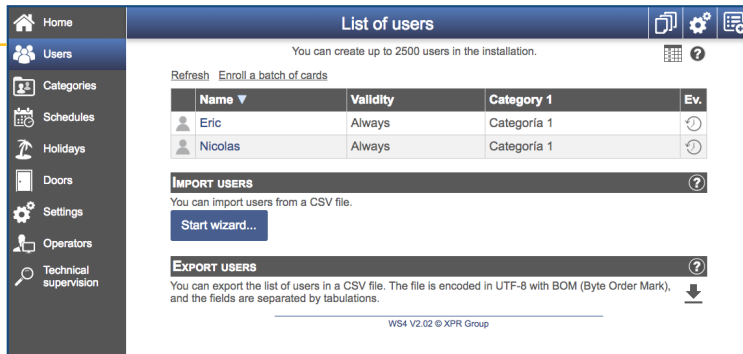
The main menu gives direct access to the user list.
Creating and modifying users is then accessible.
The list of information displayed may be configured.
Users can be imported from an existing CSV file and exported for another use.
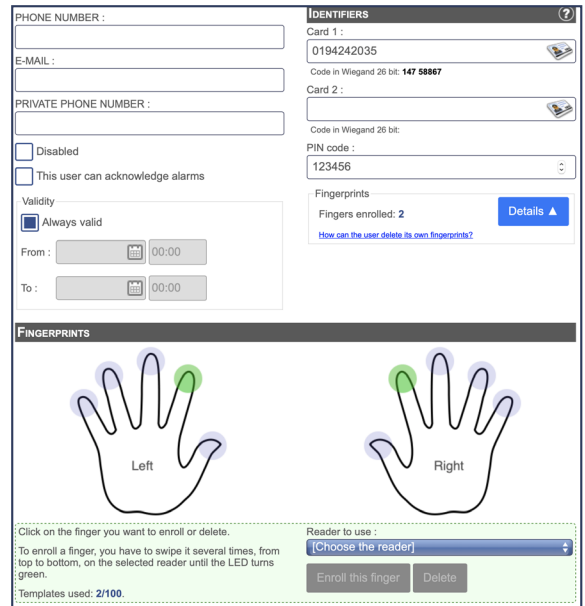
"User" sheet (2500)

This contains the essential items for identifying users and granting access rights.
• Their surname and name
• Up to 5 open customisable fields
• Their authorised dates and times
• 3 access categories
• Set-up and management of biometric user fingerprints (max 4 fingerprints per user; 100 per installation).
• Their 2 cards and their PIN code
Users may be deactivated with a single click. Activating an option enables a user to deactivate system alarms using their badge.

Defining categories (250)

This contains the essential items for defining access rights.
• The category name (Access group)
• The doors to which this category gives access
• The time frame during which access is allowed
• 2 override options:
    - blocking during forbidden periods
    - the anti-pass-back function

Defining time frames (50)

Define periods during which access is allowed. There is a time frame for each day of the week and a time frame for days established on the calendar as days off or days on which the company is closed. Three active periods can be set for each daily range.

Days off - Calendar

Days off can be set. On these dates, the active daily range in the categories will be that for days off. Individual days or established dates that are repeated yearly can be set. For example, public holidays.

10 operators to manage the system

A list of 10 operators is available. 1 of the 4 rights can be assigned to each operator.
In addition to temporarily deactivating an operator, 4 management rights are available:

• Total control (Administrator)
• Equipment installation
• Access control management
• System monitoring

License plate recognition (LPR)

The WS4 web server allows, among many other functions, the recognition and validation of license plates in connection with an LPR camera with Wiegand output.

A technical monitoring screen

To facilitate operation and maintenance, this screen shows all technical parameters and the status of each external connection of the system.

Technical supervision

This page allows you to quickly view the status of all the inputs and outputs of the system.

Navigation: Home, Users, Categories, Schedules, Holidays, Doors, Settings, Operators, Technical supervision

General

Mains	OK				
Voltage	14.2V				
Box	Closed				
DIP switches		sw1	sw2	sw3	sw4
		OFF	OFF	OFF	OFF
RAM usage	27.5%				

Auxiliary Inputs & Outputs

Input 1 (Emergency)	OFF
Input 2 (Not used)	OFF
Output 1 (Alarm)	OFF
Output 2 (Attendance)	OFF

Door 1.0 (PORTE)

Push button	OFF
Door contact	>1 MΩ
Lock relay	OFF
Reader 1	
Reader 2	---

Door 2.0 (PORTE 3)

Push button	OFF
Door contact	OFF (door OPENED)
Lock relay	OFF
Reader 1	---
Reader 2	---

Door 1.1 (PORTE 2)

Push button	OFF
Door contact	>1 MΩ
Lock relay	OFF
Reader 1	---
Reader 2	---

Door 2.1 (PORTE 4)

Push button	OFF
Door contact	OFF (door closed)
Lock relay	OFF
Reader 1	---
Reader 2	---

General information
- Power supply status
- Power supply voltage input on the WS4
- The status of the protective contact of the casing
- The status of the configuration DIP switches
- Internal memory usage status

For each door
- The status of the push button
- The status of the door contact
- The control status of the locking system
- Connection status with readers

For inputs and outputs
- The status of the two inputs
- The status of the two outputs

Flexible technical configuration

The configuration screen provides access to various features.
System information is displayed on this screen.

- Network configuration
- Date and time
- "System" options
- Wiegand readers
- Auxiliary inputs and outputs
- "User" options
- Backup and update
- Mail service configuration
- Restore a backup
- Firmware update
- System log
- Alarm function
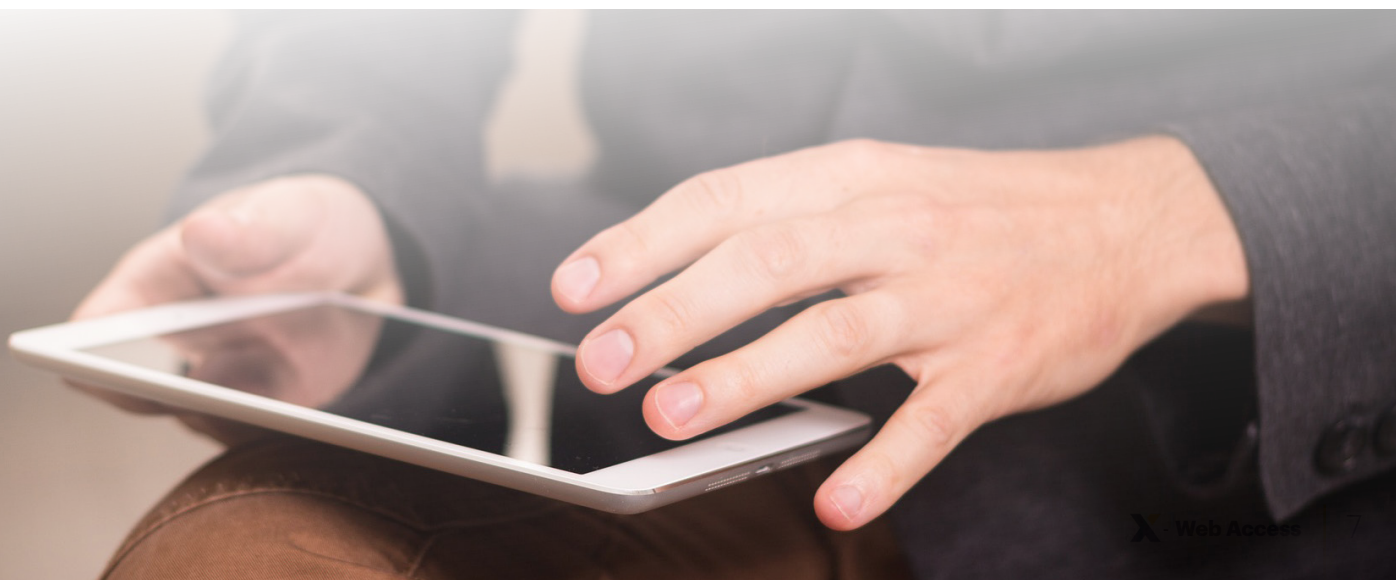
Free Configurable Mail Service

The system can be configurated to send automatic emails in any of the following cases:

- Security Alarms (break-in, box opened, reader tamper, door contact sabotage, broken glass)
- Technical Alarms (reader off-line, door off-line, module off-line)
- Electrical Alarms (mains failure, battery low, voltage too high)
- Consecutive Identifications Errors (unknown pin/card, login error)
- Door too long opened
- The control status of the locking system
- Connection status with readers

It is also possible to configure the mail service to receive a «Daily Email» as a «Connection Test».

Emails	
This page allows you to configure the sending of emails. Warning, the system is limited to **100 emails** per month.	
Name of the site (sender) :	WS4 Bxl Office
Group of recipients No.1 :	info@xprgroup.com	Test
Group of recipients No.2 :		Test
Group of recipients No.3 :		Test
Language : English	Emails sent this month: 2

Type of event	Recipients
Security alarms (break-in, box opened, reader tamper, door contact sabotage, break glass)	Group No.1
Technical alarms (reader off-line, door off-line, module off-line)	Group No.1
Electrical alarms (mains failure, battery low, voltage too high)	Group No.1
Consecutive identification errors (unknown pin/card, unknown pin/card, login error)	Group No.1
Door too long opened	Group No.1

Connection test
Attention, this email is only sent to the 1st recipient of the group No.1.

M T W T F S S   at : 10:00   Even if holiday

Secure and resistant housing with power supply

White metal housing, that includes a 5 A power supply able to feed the complete access installation.
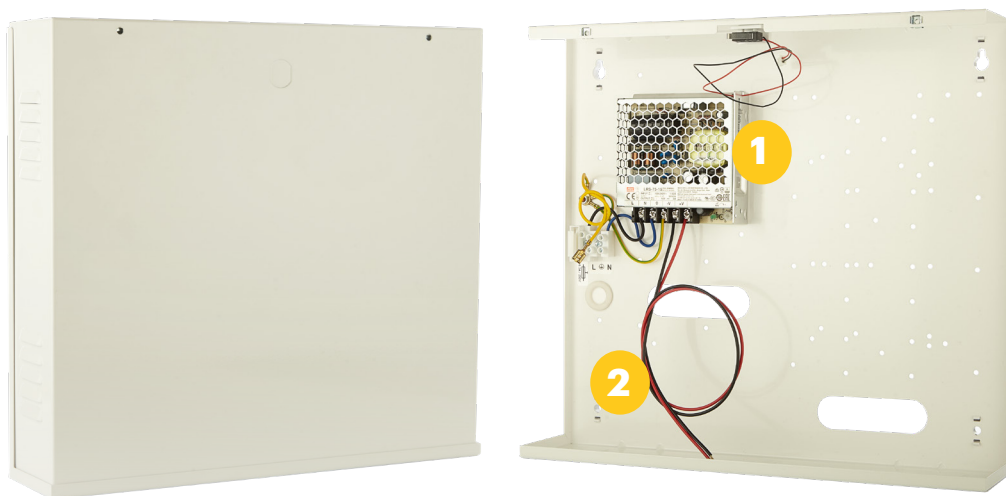
WS4-PS5

* White metal housing: 356 x 90 x 325 mm

1 Electrical power supply: Output: 15 V DC/5A
   Input: 120 to 240 V AC; frequency 50/60 Hz, 100 VA-1.52A with fuse (1 A)

2 Space for rechargeable 12 V / 7 Ah battery with reverse polarity protection. Low battery detection and anti-deep discharge.

WS4-PS5 is a universal metal enclosure, specially created for our Web Access products, with power supply included. It can be used to include more than one Web Access product inside, like two web server controllers or two relay boards to work with the web server controller. So there is no need to have a different enclosure for each new product that you want to add to your web server installation.

Common features to all the WS4 controllers

WS4

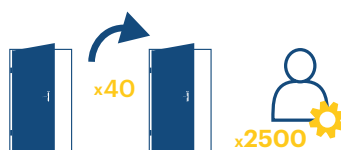|	WS4 Controllers
Number of users:	2500 users
Access groups:	250 (categories)
Weekly schedules:	50
Stored events:	50,000
Operators:	10
If door contact is present, option for:	Break-in alarm - Door open too long alarm - Max. open time: 15 - 999 s - Pre-alarm time (reader buzzer): 0 - 99 s
Free access period:	with "Only if someone is inside" option
Connectivity:	TCPIP 10/100/1000 Base-T mode DHCP (default) or fixed. HTTPS connection with XPR certificate
Real-time and maintenance status:	View of the general status of the system View of door status
Import and Export:	Import and export users as .csv file
Easy saving of data:	On a USB key, in the WS4 or on the user interface
Additional configuration:	Anti-Passback and Anti-Passback Time (0-99 min) Mantrap function on all doors Interlock
Voltage:	5 A (120 - 240 V AC at 50/60 Hz, 100 VA-1.52 A with 1 A fuse)
Wiegand readers connection:	Yes, via Wiegand to RS-485 converter - WS4-CNV
Operating temperature:	0°C to +50°C
Operating humidity:	0% to 85 % (non-condensing)
Tamper:	Yes, built-in

Accessible from anywhere in the world

- No software to install or download. No dedicated PC.
- Access your WS4 via Internet.
- It can be used with all types of devices: PC, Mac, Smartphone, iPhone, Tablet, iPad.
- It adapts to the format of your equipment (Responsive Web Design).

Easy to install and to expand

- Created to manage a number of doors with different readers, the system can be extended up to 40 doors, managing 2500 users and 250 access groups (categories).
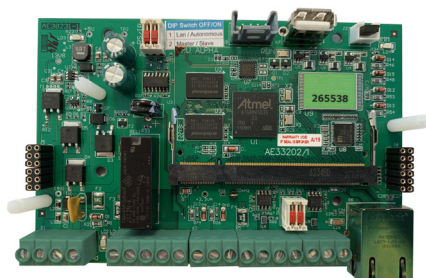
x40   x2500

Reduced installation time

- The readers work with RS-485 outputs, establishing double communication between the readers and the controller, and reducing the number of wires needed in the installation.
- The controller works with TCP/IP connection (10/100/1000 Base-T – HTTP or HTTPS).
- The power supply is connected to the controller, simplifying the wiring connection of locks and magnets.

RS-485

Particular features of each WS4 controller

	WS4-1D	WS4-2D	WS4-4D
Door Relays:	1 (2 A/48 V AC/DC)	2 (2 A/48 V AC/DC)	4 (2 A/48 V AC/DC)
Input-Output:	-	2 inputs: emergency, vehicle detection 3 outputs: alarm, storing alarm status, presence	2 inputs: emergency, vehicle detection 2 outputs: alarm, storing alarm status, presence
Possible combinations:	a) 1 door with 1 reader and 1 push button b) 1 door with 2 readers (In and Out)	a) 2 doors with 1 reader and 1 push button b) 1 door with 2 readers, for entry and exit	a) 4 doors with 1 reader and 1 push button b) 2 doors with 2 readers, for entry and exit c) 1 door with 2 readers, for entry and exit, plus 2 doors with 1 reader and 1 push button
Electronics:	WS4-1D-E	WS4-2D-E	WS4-4D-E
Electronics dimensions:	86 x 130 x 20 mm	86 x 130 x 40 mm	116 x 195 x 33 mm

WS4-1D-E
WS4-1D electronic
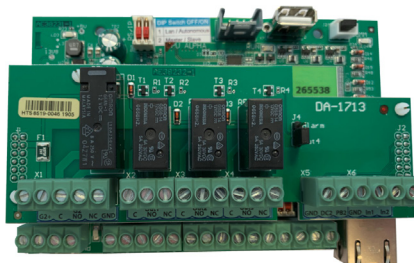
WS4-2D-E
WS4-2D electronic

WS4-4D-E
WS4-4D electronic

Modular System

The WS4 system can be easily extended up to 40 doors by adding more controllers with their corresponding electronics, and extenders to the installation.

They can be grouped in WS4-PS5 housings, saving time and space in the installation.
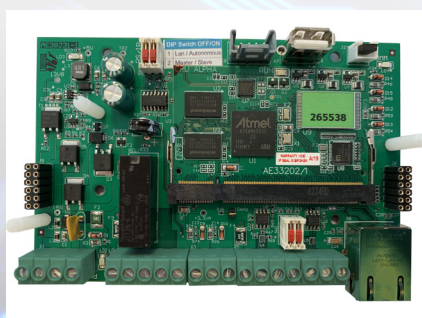
WS4-1D-E
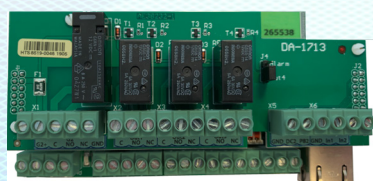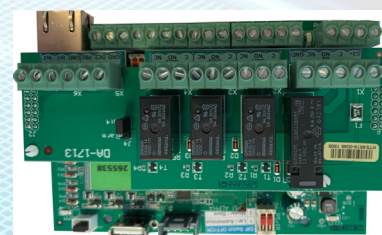Electronic for 1-door unit system

WS4-EXT
Extender

WS4-2D-E
Electronic for 2-door unit system
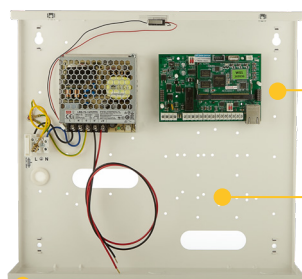
Web Access -

Door Programming

Indicating the presence of a door contact makes it possible to activate an alarm:
- in the event of a breach
- in the event of a door opened for too long

This door contact can also be monitored (4-state contact). In the event of a short circuit or interruption of its connection, an alarm is activated.
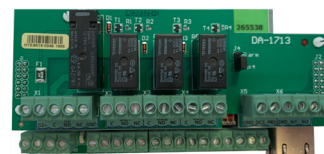
Possible combinations with the WS4-1D

WS4-1D-E
1-door web server controller electronic

Space for another WS4-1D-E if wanted or a WS4-2D-E electronic

WS4-PS5, universal housing

+ Option 2: To add an extender

a) with our extender, the WS4-EXT, to convert the 1-door controller into a 2-door controller.

b) with the combination of more webserver controller electronics and readers

WS4-EXT, extender that can be added to the WS4-1D-E electronic to convert it into the WS4-2D-E (electronic for the 2-door web server controller)
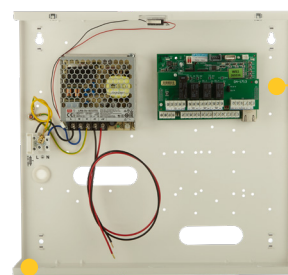
Combination 1

1 door with 1 reader and 1 push button

Combination 2

1 door with 2 readers (In and Out)

WS4-2D-E
2-door web server controller electronic

WS4-PS5, universal housing

Note: All these possible combinations of adding more WS4 controller electronics and extenders can also be applied to the WS4-2D and WS4-4D, with the only difference that we start with a more extended installation than with the WS4-1D.

Two possible combinations with the WS4-2D

Combination 1

2 doors with 1 reader and 1 push button
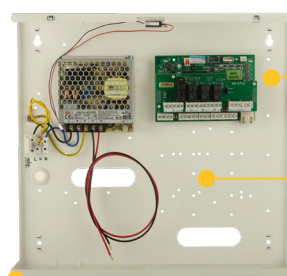

x 2

Combination 2

1 door with 2 readers (In and Out)

+ Options to expand the installation

with the combination of more web server controller electronics and readers

E.g.

WS4-2D-E web server controller electronic

Space for another WS4-2D-E if wanted

WS4-PS5, universal housing

Three possible combinations with the WS4-4D

WS4 4D

Combination 1
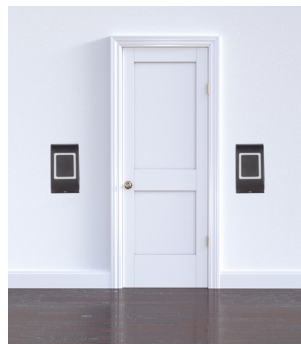4 doors with 1 reader and 1 push button

Combination 2
2 doors with 2 readers, input and output
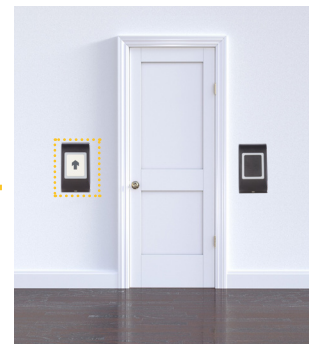
Combination 3
1 door with 2 readers, input and output, and 2 doors with 1 reader and 1 push button.

x 4   x 2   + x2

+ Options to expand the installation

with the combination of more web server controller electronics and readers, as we´ve seen in the previous cases, with the WS4-1D and WS4-2D.

All WS4 solutions can be extended up to 40 doors

▼ Readers - Web Access

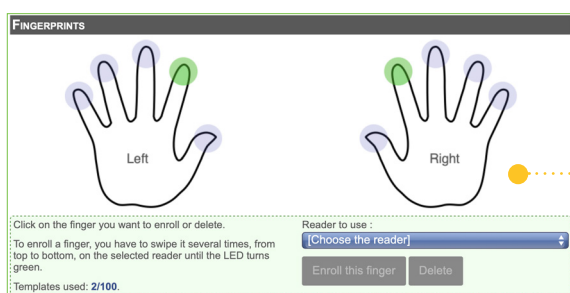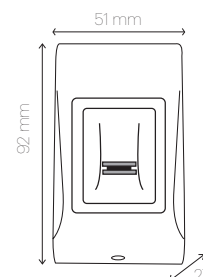|	
Swipe	
up to 5 cm	EM
0ºC /+50ºC	C°
5% →95%	
9-14 V DC	
50 cm	
54	IP

B100P-RS-EH

Fingerprint and RFID reader with RS-485 output

Elegant and compact biometric swipe capacitor reader with RFID technology of 125 KHz. The housing, in black ABS, comes with a big rectangular LED. Designed to be installed either outside or inside, it has RS-485 bus. Its tricolour LED, tamper and buzzer are managed directly by the WS4 controllers. It can read fingerprints and EM or HID 125 KHz cards, offering a double-access security.

Ref: B100PBK-RS-EH

51 mm
92 mm
27

FINGERPRINTS

Left   Right

Click on the finger you want to enroll or delete.

To enroll a finger, you have to swipe it several times, from top to bottom, on the selected reader until the LED turns green.

Templates used: **2/100**.

Reader to use :
[Choose the reader]

Enroll this finger   Delete

WS4 Interface - Biometry

You can set up your WS4 biometric readers and fingerprint enrolment process via our easy tool adding many additional possibilities.

There is a capacity of 4 fingerprints per user and 100 per installation.

MTPADP-RS-EH V2 & MTPADP-RS-MF V2

EM & HID or Mifare RFID Keypad

This double-technology reader, in ABS, offers a double access security: via code and via card. It can be installed either outside or inside. It comes with an RS-485 bus and a backlight keypad. Its LEDs, tamper and buzzer are managed directly by the WS4. It can read EM or HID 125 KHz cards (MTPADP-RS-EH V2), depending on the programming selected and Mifare Classic, DESfire and Ultralight cards (MTPADP-RS-MF V2).

Ref: MTPADPBK-RS-EH V2, MTPADPS-RS-EH V2,
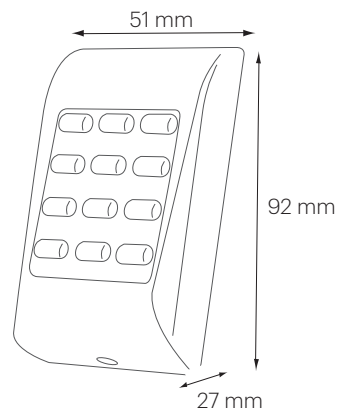   MTPADPBK-RS-MF V2, MTPADPS-RS-MF V2

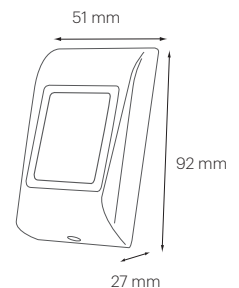| Icon	Value
EM/Mifare	up to 6 cm
C°	-20ºC /+50ºC
humidity	5% →95%
power	9-14 V DC
cable	50 cm
IP	65

51 mm
92 mm
27 mm

MTPX-RS-EH V2 & MTPX-RS-MF V2

EM & HID or Mifare RFID reader

The EM/HID RFID 125 KHz or Mifare 13.56 MHz reader offers a smart and compact design. Its ABS housing comes with a large LED. It can be installed either outside or inside. It comes with a RS-485 bus. Its tricolor LED, tamper and buzzer are managed directly by the WS4. It can read EM or HID 125 KHz cards (MTPX-RS-EH V2), depending on the programming selected or Mifare Classic, DESfire and Ultralight cards (MTPX-RS-MF V2).

Ref: MTPXBK-RS-EH V2, MTPXS-RS-EH V2
      MTPXBK-RS-MF V2, MTPXS-RS-MF V2

Icon	Value
EM/Mifare	up to 6 cm
C°	-20ºC /+50ºC
humidity	5% →95%
power	9-14 V DC
cable	50 cm
IP	65

51 mm
92 mm
27 mm

MTT & MTT-IR
Sensitive Push Button

C° -20°C /+50°C

0% → 95%

12-24 V DC

50 cm

IP 65

The MTT sensitive touch button is an entirely electronic, non-mechanical and ergonomically designed access control device. It can either function as an independent manually-controlled push button or alternatively, be connected to a controller to facilitate access from a secure area.

Ref: MTTBK, MTTS, MTTBK-IR, MTTS-IR;

51 mm

92 mm

27 mm
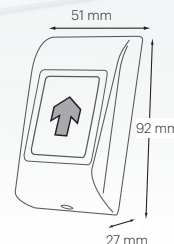
# LCS Range Readers - Web Access

EM up to 7 cm

C° -20°C /+50°C

5% → 95%

9-14 V DC

IP 65

LCSP-RS-EH

EM & HID Keypad and RFID reader with RS-485 Output

This robust double-technology reader provides a double-access security: by code and by card. Designed to be installed either outside or inside, it is available in a variety of metal and ABS housings. It can be surface or flush mounted. It has an RS-485 bus and a backlight keypad. Its LEDs, tamper and buzzer are managed directly by the WS4. It can read EM or HID 125 KHz cards, depending on the programming selected.

Ref: LCSP-RS-EH-43B/ LCSPM-RS-EH-43B/ LCSP-RS-EH-73C/ LCSPM-RS-EH-73C/LCSP-RS-EH-103A/ LCSPM-RS-EH-103A

90 mm

120 mm

40 mm

73C

C° -20°C /+50°C

0% → 95%
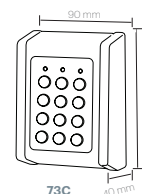
9-14 V DC

IP 65

LCS-RS

Keypad with RS-485 Output

This robust keypad can be either installed outside or inside. It is available in a wide variety of ABS and metal housings, allowing to choose between a surface or a flush mounting. It comes with an RS-485 bus and a backlight keypad. The LEDs, tamper and buzzer are managed directly by the WS4.

Ref: LCS-RS-43B/ LCSM-RS-43B/ LCS-RS-72C/ LCSM-RS-72C/ LCS-RS-102A/ LCSM-RS-102A/LCS-RS-62A/ LCSM-RS-62A

91 mm

4903 mm

113,24 mm

4219 mm

62A
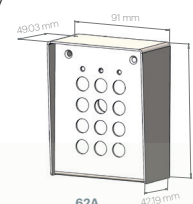
Accessories

13.56 MHz Fobs & Cards
Fobs & cards
13.56 MHz cards (1 KB & 4 KB).
Formats available: NISO and ISO cards (printable) and fobs in ABS.
Fobs colours: grey, black, blue, red or green.

Ref: PBX-1E-MS 50/PBX-2-MS50/PBX-2C-MS50/PBZ-2-MS70

125 KHz Fobs & Cards
Fobs & cards
125 KHz RFID cards (EM4100 & 4200).
Formats available: NISO and ISO cards (printable) and fobs in leather or ABS.

Ref: PBX-1E/PBX-1C/PBX-2/PBX-2C

Application

WS4 Remote

The WS4 Remote application offers the possibility to control your access not only by using code keypads, RFID readers or fingerprint readers, but also via your own smartphone or smartwatch connected to the internet without the need to open any web browser to activate it. Your smart device acts like a digital remote control which allows you to open your doors from anywhere.

Modules and Converters - Web Access
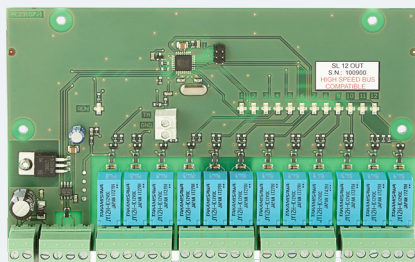
WS4-RB

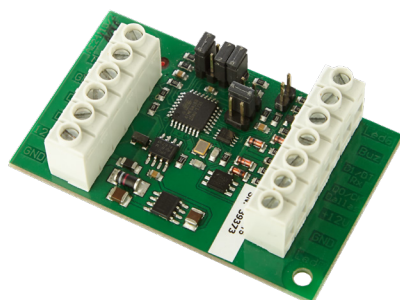12 output industrial expansion board

The WS4-RB board is an expansion module compatible with the RS-485 and IP head-end local communication bus.

• RS-485 connection on local bus
• 12 outputs: Relay with 2 NO 2 A - 48 V contacts
• Power supply: 13.8 DC min. 20 mA - typical 250 mA
- max. 300 mA
• LED signalling for output status
• Plug-in terminals

Ref: WS4-RB-E

Elevator control

WS4-CNV

 Universal interface

This interface makes it possible to connect any type of reader (Wiegand, Data/Clock ISO2, Dallas, and RS-232) on the WS4.

•   Power usage without an external element: 30 mA
•   13.8 V DC output: max. 200 mA
•   Input auto protection

Ref: WS4-CNV

Symbols legend

| EM | Mifare | Biometry | Terminal Block | Wiring | Voltage | Operating temperature | Operating humidity | IP Protection | USB |

Web Access

New Internet website, www.xprgroup.com

Visit our website to find out more
info about our products.

Ref: CATALOG_WEBACCESS_EN_v2

xpr