



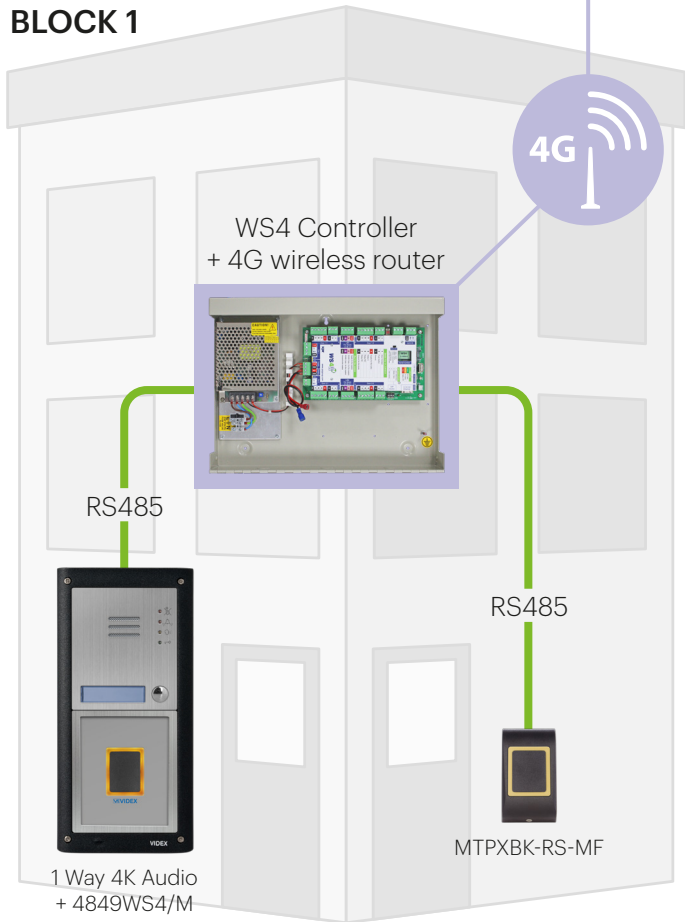
WEB ACCESS

WS4 | 
Web Access Solution

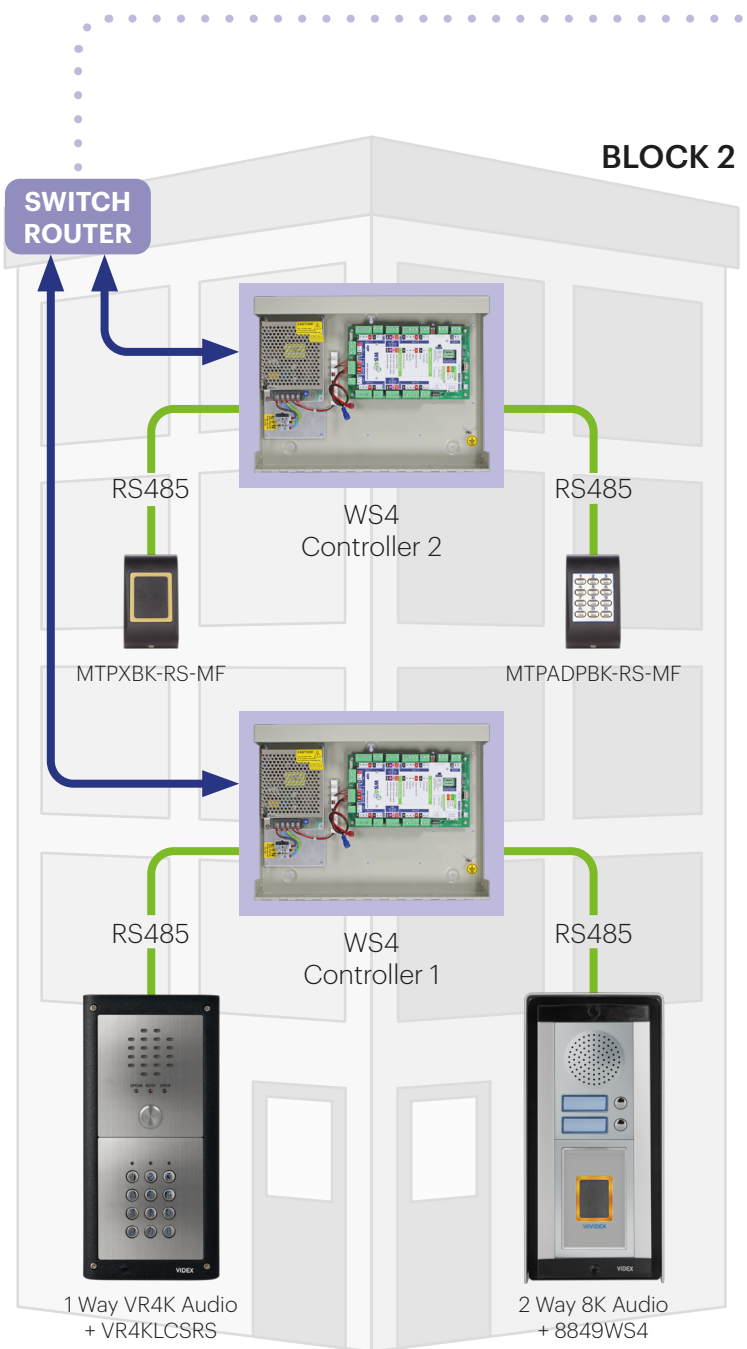
 **VIDEX**[®]



BLOCK 1



BLOCK 2



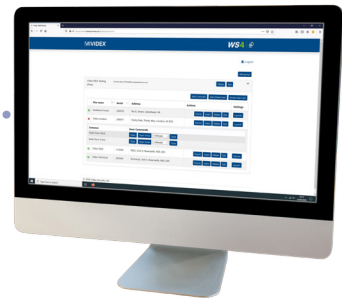
- Web Server Access Control.
- Remote global system management via a web browser.
- Full access control via iOS and Android Apps.
- Customisable email alerts and alarms.
- Fire Alarm integration.

- System health-check alerts.
- Lift integration feature.
- Third-party input and alarm triggers.
- CSV file format supported for import and export of data.
- Air-lock and anti-passback functions available.

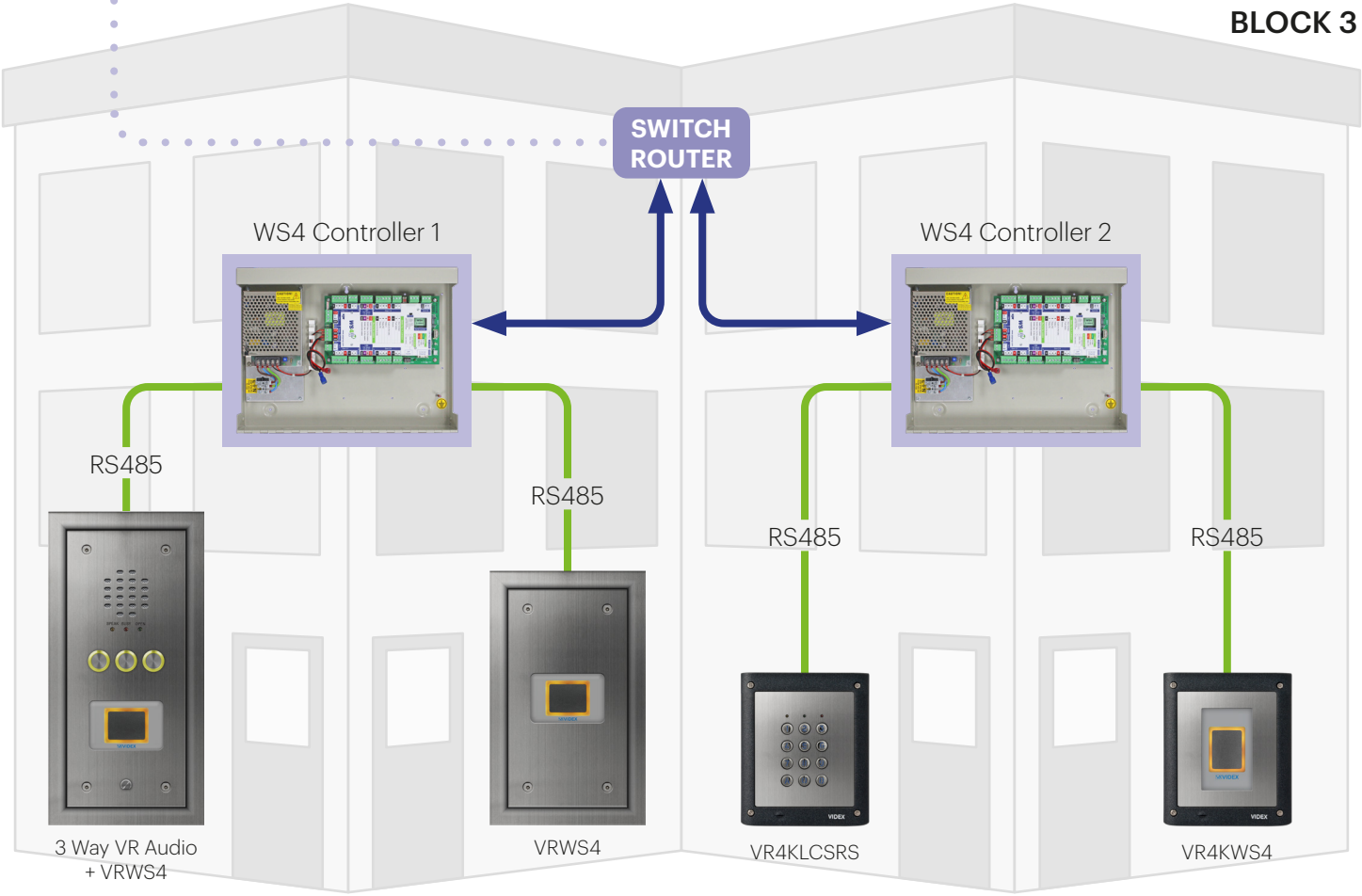
Access Solution



WS4 Web Portal



BLOCK 3



- Live and past events viewable remotely.
- Multiple block control.
- 2500 users per block, unlimited app users.
- Rolling 50,000 events per block.
- System can be expanded up to 20 doors per block.
- 1 door, 2 door and 4 door controllers available.
- Relay rating: 2A @ 48V ac/dc.
- Switch OV Push to Exit inputs.
- Battery backup facility.
- 4G control cabinets available.

Contents

➤	Web Access - Introduction	5
➤	Main Advantages of the System	6
➤	Complete visualization of the status of the system at a glance	6
➤	Simple and efficient programming for users and user access	7
➤	Technical monitoring screen	8
➤	WS4 Update Version 2.50	9
➤	WS4 - Portal	9
➤	WS4 - Mobile Apps	10
➤	WS4 App	11
➤	WS4 Access App	11
➤	Manage an Alarm Panel	12
➤	Alarm panel and reader combinations	12
➤	Door Programming	13
➤	WS4 controller door combination examples	13
➤	Proximity Readers	14
➤	Keypads	15
➤	Exit Button	16
➤	Accessories - Fobs and Cards	16
➤	Controllers - WS4 Control Cabinets	17
➤	Minimal hardware required	17
➤	WS4CU1 / WS4CU1-4G	17
➤	WS4CU2 / WS4CU2-4G	18
➤	WS4CU4 / WS4CU4-4G	19



Although every effort has been made to provide accurate information, there may be technical or print errors in this brochure. Videx reserves the right to make changes, corrections and improvements to such information at any time and without prior notice.

Web Access - Introduction

Full access control via the Internet, wherever you are and with any device: mobile phone, tablet or computer.

We make it easier to control your access control needs, ideal for houses, offices, businesses, schools, hospitals..

Take control from anywhere and at anytime.



- Capacity for 2500 users, unlimited app users.
- 250 access groups.
- 50 weekly schedules.
- Stores the last 50,000 events.
- Air-lock function.
- Anti-passback function (read in/read out).
- Anti-passback time function.
- Web Portal to manage multiple sites.
- Admin and User Apps available.

- 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-E internal memory (daily), or on the user interface.
- Lift Interface available (**WS4-RB-12**).

➤ Main Advantages of the System

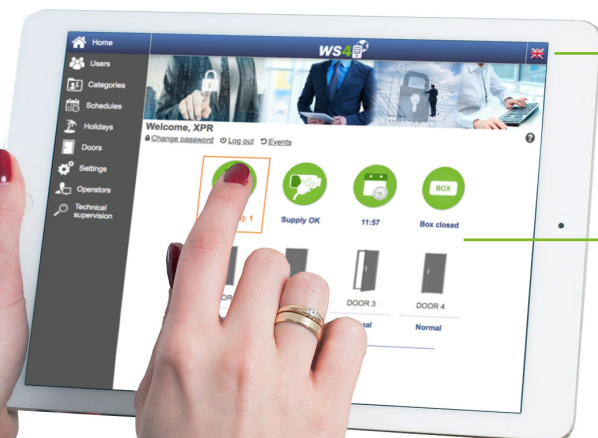
- The entire access system can be accessed and managed from anywhere in the world with an internet connection.
- Very easy to install and to use with an intuitive and ergonomic interface.
- Once installed, the system is 100% stand alone.
- Choose from 1, 2 or 4 door controllers and Mifare proximity readers or combined keypad & Mifare proximity readers.
- Expand up to 20 doors.
- Manage up to 2500 users and 250 access groups (categories) via the LAN or remotely using secure communication HTTPS (all data between the controller and web browser is encrypted).
- DynDNS, a fixed IP address is not required.
- Universal “plug & play” (UPnP) is supported.
- Port forwarding can also be setup if required.
- The readers communicate with RS485, establishing a bi-directional communication between the readers and the WS4 controller thereby reducing the number of wires required for the installation.
- The WS4 controllers have a TCP/IP Ethernet connection (10/100/1000 Base-T – HTTP or HTTPS).
- The power supply is located in the control cabinet (**WS4CU1 / WS4CU1-4G** : 1 door cabinet, **WS4CU2 / WS4CU2-4G** : 2 door cabinet, **WS4CU4 / WS4CU4-4G** : 4 door cabinet).
- Adaptive web format feature (Responsive Web Design) that adapts to the format of your device.
- Can be used with all types of devices: PC, MAC, Android Smartphone, iPhone, Tablet and iPad.

➤ Complete visualization of the status of the system at a glance



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

- The status of the doors and the readers.
- The battery and power supply status.
- The presence or absence of alarms.
- The system date and time.
- The number of operators connected to the controller.
- Setup email alerts to inform a manager or engineer, including a system “health check” email schedule.
- Allocate different types of event reports to engineers and administrators (e.g. reader offline, power issues to an engineer and/or door open too long events to a manager).

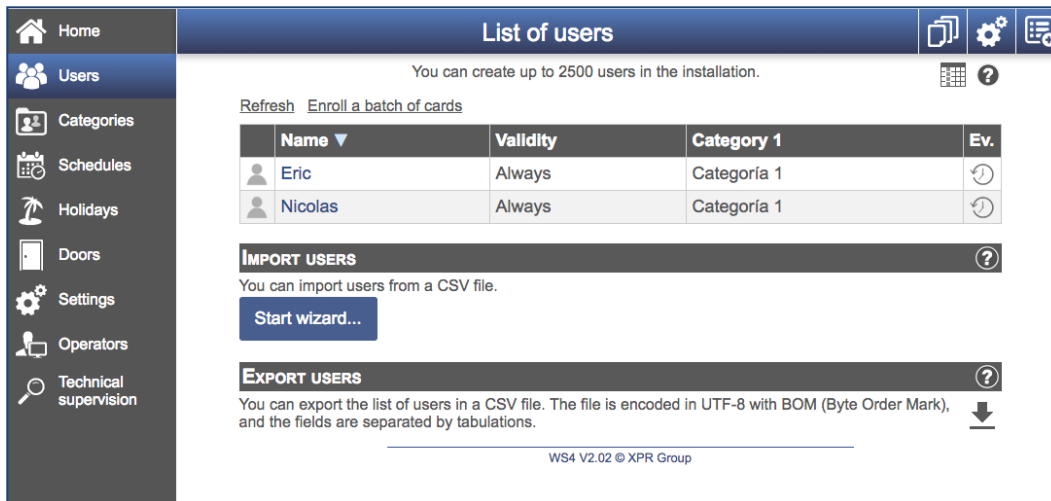


Available in English, French, German, Spanish, Dutch, Italian, Portuguese and Danish.

One click, and you will be able to:

- Navigate through the menu.
- View events.
- Open a door.
- Lock and unlock the doors for a time period.

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 can be configured.
 Users can be imported from an existing CSV file and exported if required.

Users (2500)

For adding, editing and deleting.

- The username (name and surname).
- Up to 5 customizable fields.
- Authorized dates and times.
- 3 categories (access levels).
- Up to 2 fobs/cards and an access level per user.

Users may be de-activated in a single click.

Categories - Access Levels (250)

Setup access levels for groups of users.

- The category name (access group).
- The doors for which this category has access.
- The timeband during which access is allowed.
- 2 override options:
 - Blocking during forbidden periods.
 - The anti-pass-back function.

Schedules - Timebands (50)

Define periods during which access is allowed. There is a timeband for each day of the week and a timeband for holidays. 3 active periods can be set for each daily timeband.

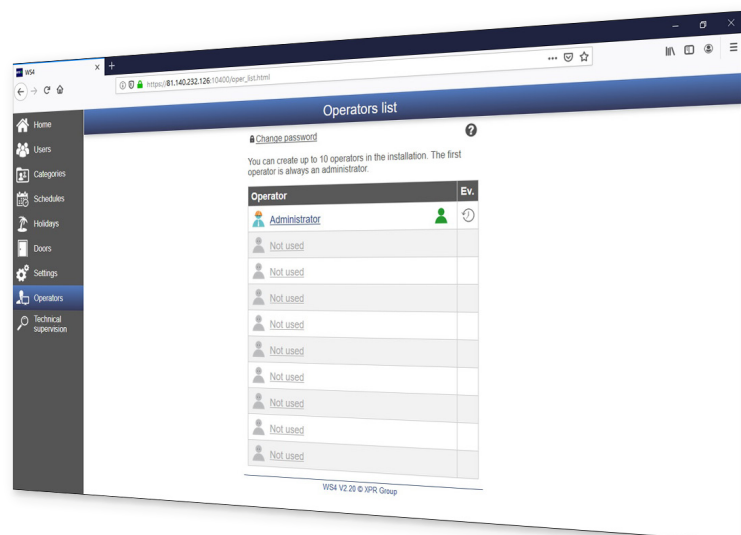
Holidays - Calendar

One off and annual holidays can be set, for example public holidays. On these dates the active timeband for holidays takes priority over the actual days access level.

Operators (10)

A list of 10 operators is available. 1 of 4 rights can be assigned to each operator.

- Total control (Administrator).
- Equipment installation.
- Access control management.
- System monitoring.



Technical monitoring screen

Monitor the system, this screen shows the status of the system.

Technical supervision

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

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

Door 1.0 (PORTE)	
Push button	OFF
Door contact	>1 MΩ
Lock relay	OFF
Reader 1	DA-5003 V2.00 (70384)
Reader 2	---

Door 1.1 (PORTE 2)	
Push button	OFF
Door contact	>1 MΩ
Lock relay	OFF
Reader 1	---
Reader 2	---

Auxiliary Inputs & Outputs	
Input 1 (Emergency)	OFF
Input 2 (Not used)	OFF
Output 1 (Alarm)	OFF
Output 2 (Attendance)	OFF

Door 2.0 (PORTE 3)	
Push button	OFF
Door contact	OFF (door OPENED)
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 level.
- Tamper status.
- The status of the configuration dip-switches.
- Internal memory usage.

For each door

- The status of the push button.
- The status of the door contact.
- The control status of the lock.
- Connection status of the readers.

For inputs and outputs

- The status of the inputs.
- The status of the outputs.

Settings

The settings screen provides access to various features.

- Network configuration.
- Date and time.
- "System" options.
- Reader configuration.
- Auxiliary inputs and outputs.
- "User" options.
- Backup and update.
- Restore.
- Firmware update.
- System log.
- Email alerts.



WS4 Update Version 2.50

The new WS4 update - version 2.50 - offers several new features and tools.

New door icons - In order to make the interface even more user-friendly and have a better visualization of the type of door used, the update allows selection of new door icons in the door set-up. Choose between the standard door, barrier, garage shutter, bollard, tripod and turnstile. This feature allows the user to identify the doors quickly to operate or carry out the configuration.

Fixed holidays update - The number of fixed holidays has been increased up to 20 to provide more flexibility according to different worldwide calendars.

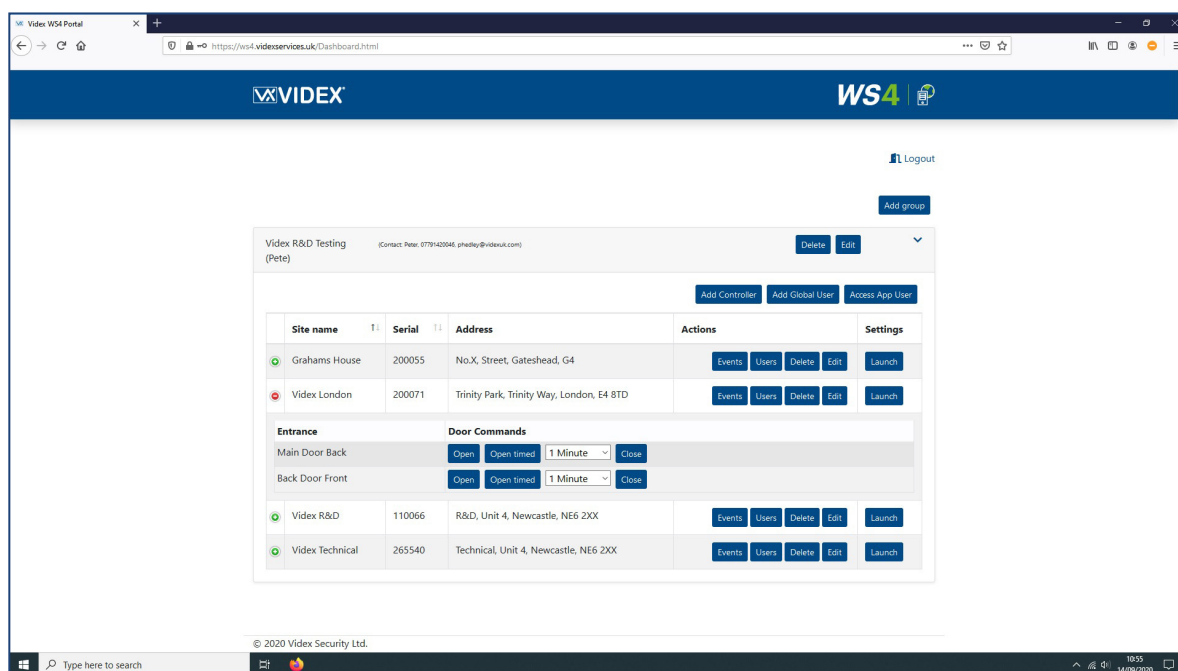
Alarm function - The new update allows the connection of the WS4 access control system to any alarm panel (also refer to example on page 12). This solution involves the following options:

- Automatic deactivation of the alarm system by the first user who opens one of the access doors into the building.
- Automatic activation of the alarm system at a predetermined time.
- Automatic activation of the alarm system when the last user leaves the building. APB (anti-passback) mode possible with an input and an output reader.
- Activation of the alarm system with a "reset code" from a reader (inside or outside). It is necessary to have at least one **MTPADPBK-RS-MF** dual technology reader (keypad and proximity).

Daily update verification - If the WS4 controller is connected to the internet, it will check new available updates on a daily basis. This information will be displayed in the notification icon on the home page as well as in the "connection test report" that is sent to you via email.

WS4 - Portal

The new **WS4 Portal** (<https://ws4.videxservices.uk/>) is the most convenient way to manage multiple site and multiple systems from one easy to navigate portal.



The portal will keep track of all the systems and sites allowing administrators to:

- Create new sites and add additional WS4 controllers.
- Open and close entrances, including setup of timed open (from 1 minute up to 15 minutes, 30 minutes and from 1 up to 12 hours).

- Add, view, edit and delete users.
- Monitor events for a particular site or a specific user.

Add WS4

Site Name *
Videx R&D

Username *
Admin

Serial *
110066

Password *

Address Line 1
R&D

API Password

Address Line 2
Unit 4

WS4 Timeout (Milliseconds)
5000

Town
Newcastle

Postcode
NE6 2XX

Add WS4 Close

Events

Show 50 entries Search:

Event	User	Date/Time	Door	Notes
Allowed by operator	[WebService]	14/9/2020 5:20:49 PM	Main entrance	
Allowed by operator	[WebService]	13/9/2020 3:46:26 PM	Side entrance	
operator	[WebService]	9/9/2020 1:15:37 PM	Main entrance	
operator	[WebService]	9/9/2020 1:15:35 PM	Side entrance	
er 65	[WebService]	8/9/2020 5:13:01 PM		
er 64	[WebService]	8/9/2020 10:16:21 AM		
er 64	[WebService]	7/9/2020 3:21:27 PM		
er 63	[WebService]	7/9/2020 3:19:00 PM		
er 57	[WebService]	10/7/2020 11:15:08 AM		
er 56	[WebService]	10/7/2020 11:12:18 AM		

22 entries Previous 1 2 3 4 5 ... 17 Next

Create User

Full Name *
John Smith

Category 1
FULL ACCESS

Fob 1
2346851120

Category 2
FULL ACCESS

Fob 2

Category 3
NO ACCESS

Access Code
532612

Disable user
 Allowed to clear alarms

Valid From
01-03-2019 00:00:00

Create Close

Also access fobs and cards, access codes and **WS4 Access App** users can be added, deleted, enabled or disabled and modified for one or more installations if required.

Access App Users

Show 50 entries Search:

User	Company	Action	Re-Issue	Activated	Expired
Peter Hedley	Videx R&D	View Edit Delete Enabled	C	●	● Active

Showing 1 to 1 of 1 entries Previous 1 Next

Close

Additionally, all installations can be monitored to ensure you are the first to know of any issues that may arise. The portal can be accessed from any web browser and via any device such as a desk top PC, tablet or mobile device.



WS4 - Mobile Apps

Also available to help manage the WS4 system on the move over secure HTTPS communication are two new WS4 mobile apps: the **WS4 App** for administrators and the **WS4 Access App** for users.

Both WS4 mobile apps are available for Android and iOS devices and can be downloaded from Google Play or the Apple App Store.

WS4 App

The **WS4 App** has been designed for administrators of the system and includes the following features:

- Enables the activation of entrances either momentarily or latched for set times.
- Adding, modifying and deleting of users.
- View events.

Additionally the **WS4 App** will show the entrance status and the status of the system, for example if there are any active alarms on the system or any power issues on site.



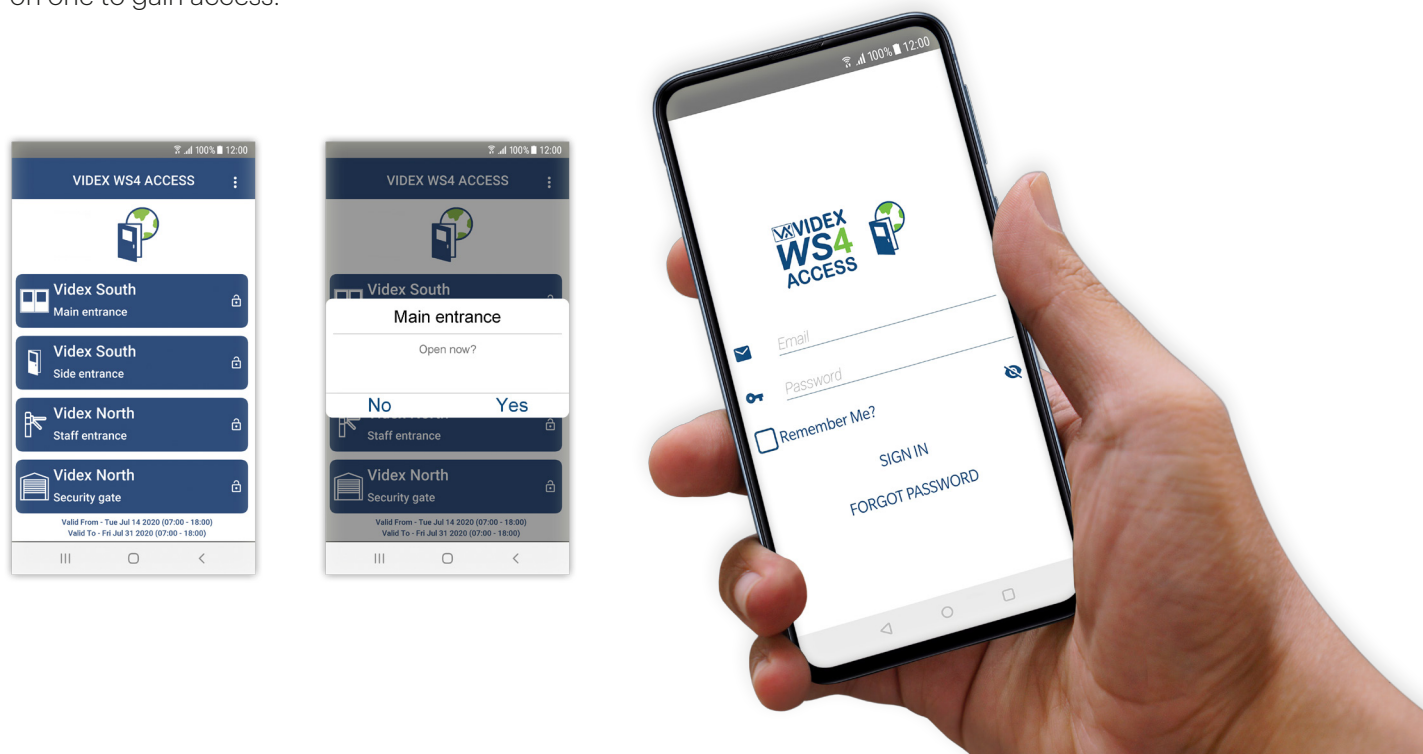
WS4 Access App

The **WS4 Access App** has been designed for users to use for access control purposes as an alternative to the traditional fob or coded access.

The administrator of the system creates a new user through the **WS4 Portal** using their email address and selecting which entrances on which sites they are allowed access and for what times and dates they will have access rights for. The user will then receive an email with a temporary password.

Once the user downloads the **WS4 Access App** from either the Google Play or the Apple App Store they will be able to login using their assigned username and temporary password.

From the **WS4 Access App** they will see all the entrances they have access through and can simply click on one to gain access.



Manage an Alarm Panel

With the WS4 web-server system it is possible to connect an alarm panel which can be armed and/or disarmed very easily from the **MTPADPBK-RS-MF** reader/keypad and does not require any specific knowledge or previous training.

This system is very useful for many applications, especially in the area of business establishments and private offices or co-working.

Using an alarm panel with the WS4 web-server couldn't be easier. When the first person enters the premises, they open the door using their personal card/PIN code and the alarm is disabled automatically.

In order to activate it again, the last person leaving the premises enters the PIN code (of the alarm panel) into the keypad and he/she has a specific time to leave. Then, the alarm panel will be armed. There is also an option to activate the alarm automatically at a specific time should the activation be forgotten.



The arming time of the alarm panel is configurable. It can be set from 5 up to 60 seconds. Once the PIN is entered, all the readers of the premises start to beep, indicating that the alarm panel is going to be armed, and once it is activated all the readers stop beeping. Any person still in the premises can stop the alarm panel activation just by presenting their card in front of any reader.

Alarm panel and reader combinations

There are many other possibilities to use an alarm panel with the WS4 web-server system:

- **1x MTPADPBK-RS-MF reader/keypad ('anti-passback' is not required)**

For this combination only one **MTPADPBK-RS-MF** reader/keypad is required (with or without RFID) at the main door.

Any user can open the door with their card or user PIN code and disarm the alarm panel. To activate the alarm again, the PIN code of the alarm panel must be entered.

- **2x MTPXBK-RS-MF readers ('anti-passback' is required to count the users inside)**

This combination requires two **MTPXBK-RF-MF** readers where the first user disarms the alarm panel when they present their card to the reader to open the door.

The last user (if all users have used the card on the exit reader) will activate the alarm automatically just by presenting the card to the exit reader.

Door Programming

The presence of a door contact makes it possible to activate an alarm, either in the event of a breach or in the event of a door being opened for too long.

Readers are also monitored, for instance, in the event of a short circuit or interruption of its connection, an alarm is activated. There are different door combinations depending on the controller required.

WS4CU1 / WS4CU1-4G **1 Possible Combination:**

- 1 door with 2 readers, for entry and exit.

WS4CU2 / WS4CU2-4G **2 Possible Combinations:**

- 2 doors with 1 reader and 1 push button.
- 1 door with 2 readers, for entry and exit.

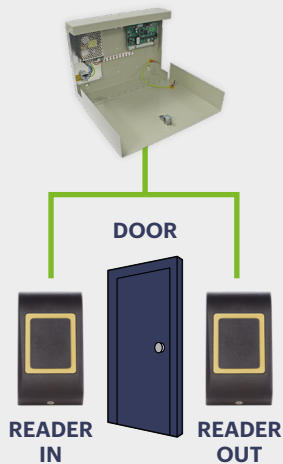
WS4CU4 / WS4CU4-4G **3 Possible Combinations:**

- 4 doors with 1 reader and 1 push button.
- 2 doors with 2 readers, for entry and exit.
- 1 door with 2 readers, for entry and exit, plus 2 doors with 1 reader and 1 push button.

WS4 controller door combination examples

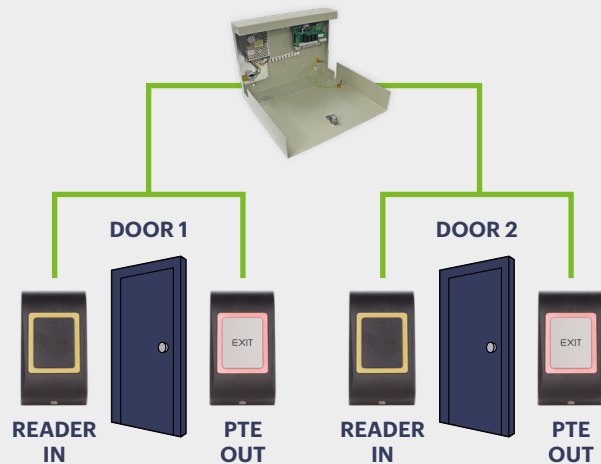
WS4CU1 / WS4CU1-4G

1 door with 2 readers, for entry and exit.



WS4CU2 / WS4CU2-4G






2 doors with 1 reader and 1 push button.



WS4CU4 / WS4CU4-4G 4 doors with 1 reader and 1 push button.



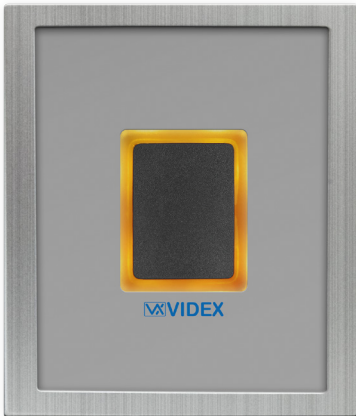
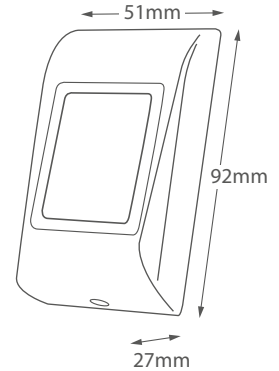


-  up to 6cm
-  -20°C / +50°C
-  0% → 95%
-  9 - 14Vdc
-  IP 65

MTPXBK-RS-MF

Mifare Proximity Reader

A compact 13.56MHz Mifare reader in a black ABS housing incorporating a rectangular "halo" tri-colour status indication LED. It has been designed to be installed either internally or externally and has an RS485 bus. Its tri-color LED, tamper and buzzer are managed directly by the WS4 controls. It can read Mifare Classic, Desfire & Ultralight fobs/cards.



4849WS4/M

4000 Series Mifare Proximity Reader Module

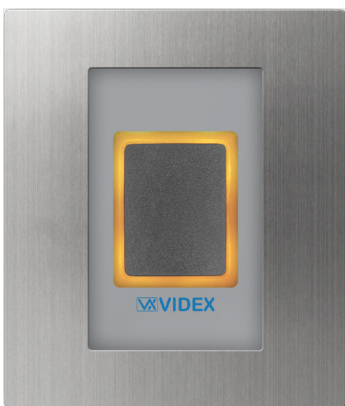
A compact 13.56MHz Mifare reader with the same technical characteristics as the MTPXBK-RS-MF reader described above. For mounting in Videx's popular 4000 series modular housing, in a matt stainless steel finish, allowing for integration with Videx's full range of 4000 series audio and video intercom door entry systems. Compatible with the 4000 series surface and flush back boxes including the 4000 series surface and flush rainshields. Dimensions (mm): 103 (W) x 120 (H) x 36 (D)



8849WS4

8000 Series Mifare Proximity Reader Module

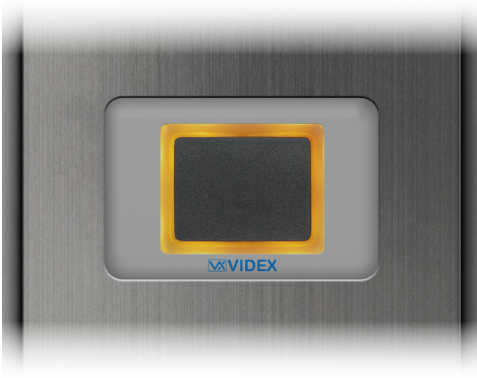
A compact 13.56MHz Mifare reader with the same technical characteristics as the MTPXBK-RS-MF reader described above. For mounting in Videx's popular 8000 series modular housing allowing for integration with Videx's full range of 8000 series audio and video intercom door entry systems. Compatible with the 8000 series surface and flush back boxes. Dimensions (mm): 97 (W) x 120 (H) x 36 (D)



VR4KWS4

Vandal Resistant 4000 Series Mifare Proximity Reader Module

A compact 13.56MHz Mifare reader with the same technical characteristics as the MTPXBK-RS-MF reader described above. For mounting in Videx's vandal resistant 4000 series (VR4K) modular housing. The front plate is manufactured from 316 grade brushed stainless steel and is compatible with Videx's full range of VR4K series audio and video intercom door entry systems. Compatible with the 4000 series surface and flush back boxes including the 4000 series surface and flush rainshields. Dimensions (mm): 103 (W) x 120 (H) x 40 (D)



VRWS4

Vandal Resistant Mifare Proximity Reader

A vandal resistant panel mount 13.56MHz Mifare reader with the same technical characteristics as the MTPXBK-RS-MF reader previously described.

The reader can be mounted to any of Videx's extensive range of vandal resistant panel range: VR120 series, VR130 series and bespoke vandal resistant panels allowing for integration with Videx's full range of audio and video intercom door entry systems.

Keypads

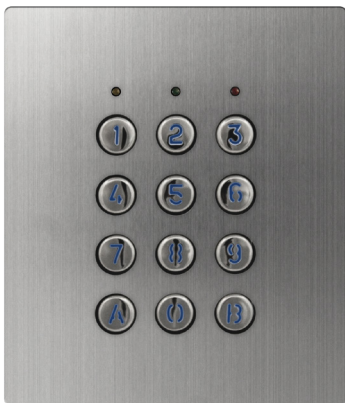
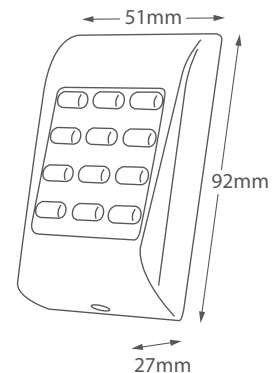


- up to 6cm
- 20°C / +50°C
- 0% → 95%
- 9 - 14Vdc
- 65

MTPADPBK-RS-MF

Keypad and Mifare Proximity Reader

This combined keypad & 13.56MHz Mifare reader, in black ABS, offers double security: via code and via fob/card. It can be installed either internally or externally. It comes with an RS485 bus and has a backlit keypad. It's LEDs, tamper and buzzer are managed directly by the WS4 controls. It can read Mifare Classic, Desfire & Ultralight fobs/cards.



VR4KLCRSR

Vandal Resistant 4000 Series Keypad Module with RS485 output

A robust keypad with blue back-lit metallic style buttons and RS485 output to connect directly to a WS4 controller.

For mounting in a vandal resistant 4000 series (VR4K) modular housing. The front plate is manufactured from 316 grade brushed stainless steel and is compatible with the full range of VR4K series audio and video intercom door entry systems.

Compatible with the 4000 series surface and flush back boxes including the 4000 series surface and flush rainshields.

Dimensions (mm): 103 (W) x 120 (H) x 40 (D)



VRLCSRS






Vandal Resistant Keypad with RS485 output

A robust keypad with blue back-lit metallic style buttons and RS485 output to connect directly to a WS4 controller.

It can be mounted to any of Videx's extensive range of vandal resistant panel range: VR120 series, VR130 series and bespoke vandal resistant panels allowing for integration with Videx's full range of audio and video intercom door entry systems.

Exit Button

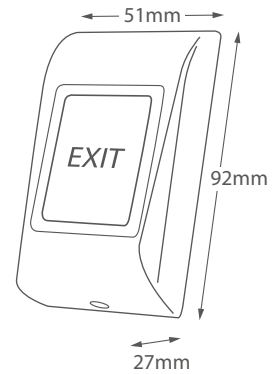


-  Exit device
-  -20°C / +50°C
-  0% → 95%
-  9 - 14Vdc
-  IP 65

MTTBK-EXIT

Touch Sensitive Exit Button

The MTTBK-EXIT is a touch sensitive push to exit button and is entirely electronic, non-mechanical and is an ergonomically designed access control device. It can either function as an independent manually controlled push button or alternatively, be connected to a WS4 series controller to facilitate the exit from a secure area.



Accessories - Fobs and Cards

A selection of Mifare Classic 13.56MHz fobs and cards are available:

Mifare Classic MS50 (1K memory) Fobs & Mifare Classic MS50 (1K memory) Card



PBX-1E-MS50

Grey ABS keyfob, Mifare Classic, 1K memory.



PBXB-1E-MS50

Blue ABS keyfob, Mifare Classic, 1K memory.



PBXBK-1E-MS50

Black ABS keyfob, Mifare Classic, 1K memory.



PBXG-1E-MS50

Green ABS keyfob, Mifare Classic, 1K memory.



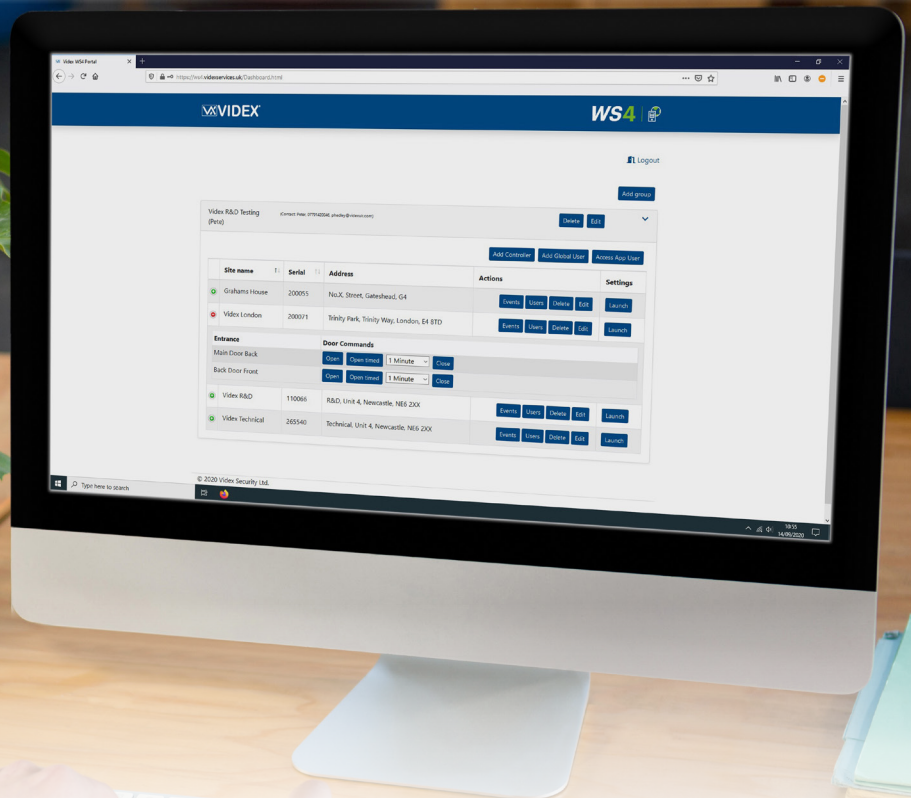
PBXR-1E-MS50

Red ABS keyfob, Mifare Classic, 1K memory.



PBX-2-MS50

0.75mm thick ISO card, Mifare Classic, 1K memory.



Controllers - WS4 Control Cabinets

There are a selection of controllers to choose from depending on the system requirements:

- **WS4CU1** : 1 door control cabinet.
- **WS4CU2** : 2 door control cabinet.
- **WS4CU4** : 4 door control cabinet.
- **WS4CU1-4G** : 1 door control cabinet including 4G router.
- **WS4CU2-4G** : 2 door control cabinet including 4G router.
- **WS4CU4-4G** : 4 door control cabinet including 4G router.

All controllers can be combined up to 20 doors if required (using a maximum of 10 cabinets). There is no need to install or download any special software as communication is carried out directly with the controller through a web browser.

Also there is no need to have a dedicated PC either. Everything is available online once the operator has registered with the controller using its unique serial number (located on the internal software chip).

Minimal hardware required

Each control unit includes the appropriate WS4 control pcb housed in a lockable powder coated steel cabinet (CAB2). They also include an intelligent power supply with full battery discharge protection and protection of power supplies against short circuits. Sufficient space for a rechargeable 12Vdc/7Ah battery is also available. The 4G cabinets also include an integrated 4G wireless router which will require a data SIM with a public IP address. The management electronics of each WS4 control pcb is based on a powerful microprocessor with a Linux kernel.

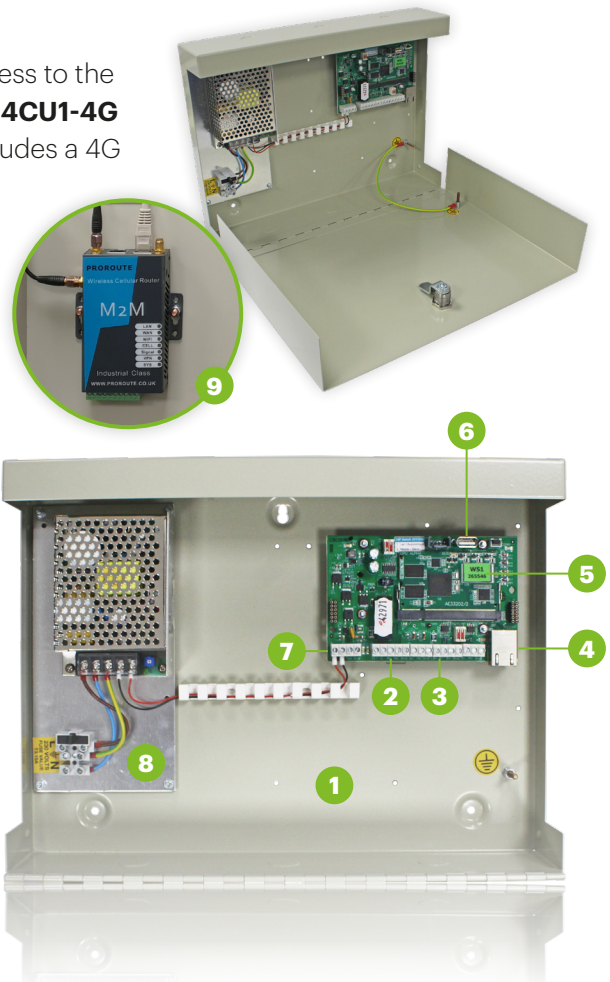
CAB2 Cabinet Specification

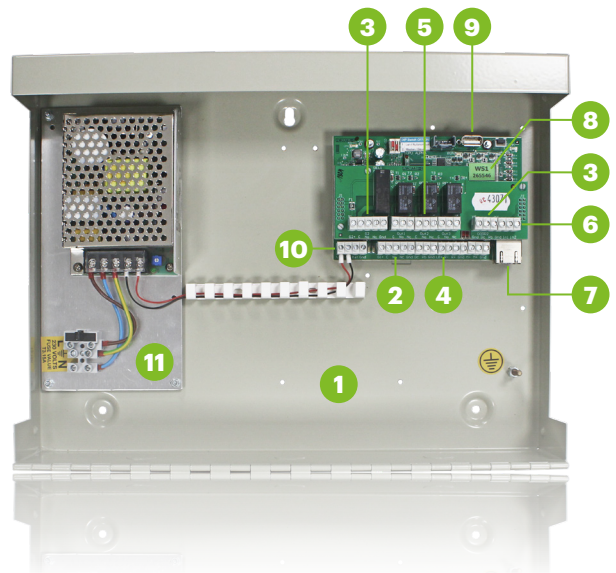
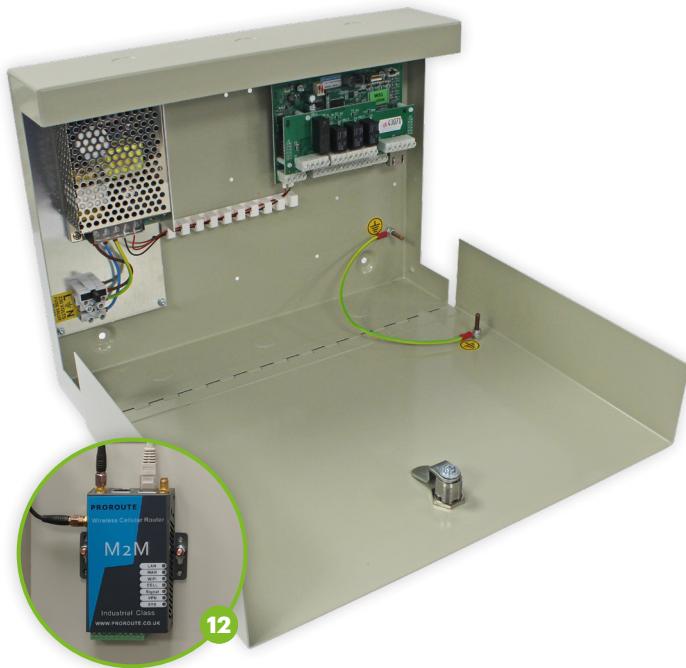
- Materials: Powder coated steel
- Dimensions (mm): 360 (W) x 265 (H) x 75 (D)
- Operating temperature: 0 °C to +50 °C
- Humidity: 0% to 85% (non-condensing)

WS4CU1 / WS4CU1-4G

The **WS4CU1** contains a WS4-1D-E control pcb with easy access to the pcb terminals and a 14Vdc, 3.2A switched mode PSU. The **WS4CU1-4G** contains the same components as the **WS4CU1** and also includes a 4G wireless router.

- 1 Space for rechargeable 12Vdc/7Ah battery.
- 2 Door 1:
 - Input for door contact and push button.
 - Direct output for latch/lock with 12Vdc - 600mA power supply.
- 3 RS485 reader connection
 - Max. current per reader: 225mA.
 - Reader power supply voltage: 12Vdc.
- 4 TCP/IP Ethernet connection: 10/100/1000 Base-T - HTTP or HTTPS.
- 5 Processor
 - ARM A5 - 528MHz.
 - Memory 64MB RAM DDR2 133MHz.
 - Built-in clock (RTC) - continues for up to 4 days without power.
- 6 USB Port for backup on USB drive.
- 7 Power and Battery inputs
 - 12Vdc power input terminals.
 - 12Vdc/7Ah backup battery input terminals.
- 8 14Vdc, 3.2A PSU (230-240Vac, 50/60Hz mains input).
- 9 4G wireless router (**WS4CU1-4G** cabinet only).

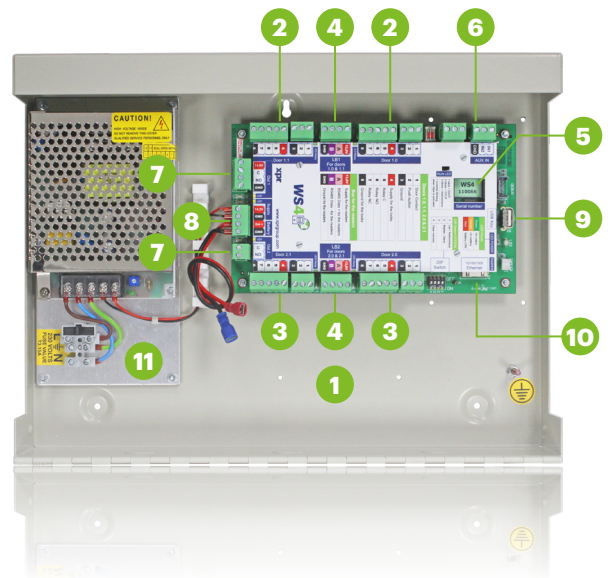
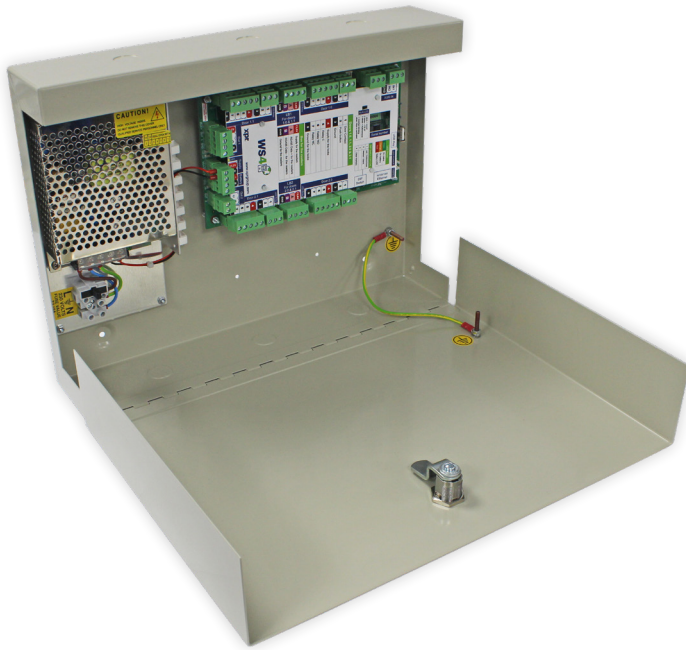




WS4CU2 / WS4CU2-4G

The **WS4CU2** contains a WS4-1D-E control pcb fitted with a WS4-EXT extension pcb and has easy access to the pcb terminals and a 14Vdc, 3.2A switched mode PSU. The **WS4CU2-4G** contains the same components as the **WS4CU2** and also includes a 4G wireless router.

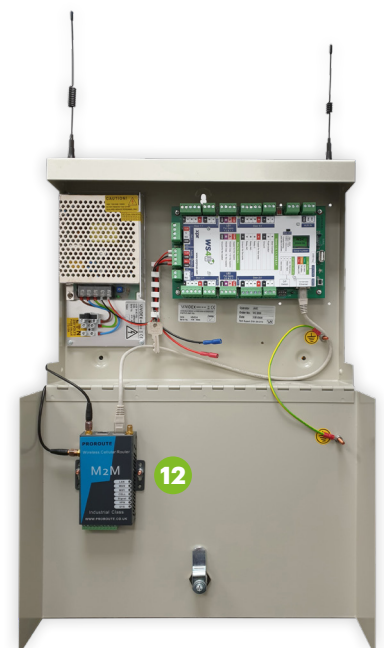
- 1** Space for rechargeable 12V / 7Ah battery with reverse polarity protection. Low battery detection and anti deep discharge.
- 2** Door 1:
 - Input for door contact and push button.
 - Direct output for latch/lock with 12Vdc - 600mA power supply.
- 3** Door 2:
 - Input for door contact and push button.
 - Direct output for latch/lock with 12Vdc - 600mA power supply.
- 4** RS485 reader connection (for doors 1 and 2)
 - Maximum current per reader: 225mA.
 - Reader power supply voltage: 12Vdc.
- 5** 3 auxiliary relay outputs
 - Alarm activation feature.
 - Storing/memorizing alarm status.
 - Presence indication of at least 1 user in the area.
- 6** 2 auxiliary inputs
 - Emergency input (e.g. break glass).
 - Vehicle detection ground loop.
- 7** TCP/IP Ethernet connection, 10/100/1000 Base-T - HTTP or HTTPS.
- 8** Processor
 - ARM A5 - 528MHz.
 - Memory 64MB RAM DDR2 133MHz.
 - Built-in clock (RTC) - continues for up to 4 days without power.
- 9** USB Port for backup on USB drive.
- 10** Power and Battery inputs
 - 12Vdc power input terminals.
 - 12V / 7Ah backup battery input terminals.
- 11** 14Vdc, 3.2A PSU (230-240Vac, 50/60Hz mains input).
- 12** 4G wireless router (**WS4CU2-4G** cabinet only).



WS4CU4 / WS4CU4-4G

The **WS4CU4** contains a WS4-E 4 door control pcb and has easy access to the plug-in terminals and a 14Vdc, 5A switched mode PSU. The **WS4CU4-4G** contains the same components as the **WS4CU4** and also includes a 4G wireless router.

- 1 Space for rechargeable 12V / 7Ah battery with reverse polarity protection. Low battery detection and anti deep discharge.
- 2 Doors 1 and 2:
 - Input for door contact and push button.
 - Direct output for latch/lock with 12Vdc - 2x 600mA power supply.
- 3 Doors 3 and 4:
 - Input for door contact and push button.
 - Direct output for latch/lock with 12Vdc- 2x 600mA power supply.
- 4 RS485 reader connection (for doors 1, 2, 3 and 4)
 - Maximum current per reader: 225mA.
 - Reader power supply voltage: 12Vdc.
- 5 Processor
 - ARM A5 - 528MHz.
 - Memory 64MB RAM DDR2 133MHz.
 - Built-in clock (RTC) - continues for up to 4 days without power.
- 6 2 auxiliary inputs (to be programmed as desired)
 - Evacuation contact (door release).
 - Emergency input (e.g. break glass).
 - Vehicle detection ground loop.
- 7 2 auxiliary outputs (to be programmed as desired)
 - Alarm activation feature.
 - Storing/memorizing alarm status.
 - Presence indication of at least 1 user in the area.
 - Alarm bell activation.
- 8 Power and Battery inputs
 - 12Vdc power input terminals.
 - 12V / 7Ah backup battery input terminals.
- 9 USB Port for backup on USB drive.
- 10 TCP/IP Ethernet connection, 10/100/1000 Base-T - HTTP or HTTPS.
- 11 14Vdc, 5A PSU (230-240Vac, 50/60Hz mains input).
- 12 4G wireless router (**WS4CU4-4G** cabinet only).



Web Access



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