

Alarm application in WS4 system

APPLICATION NOTE

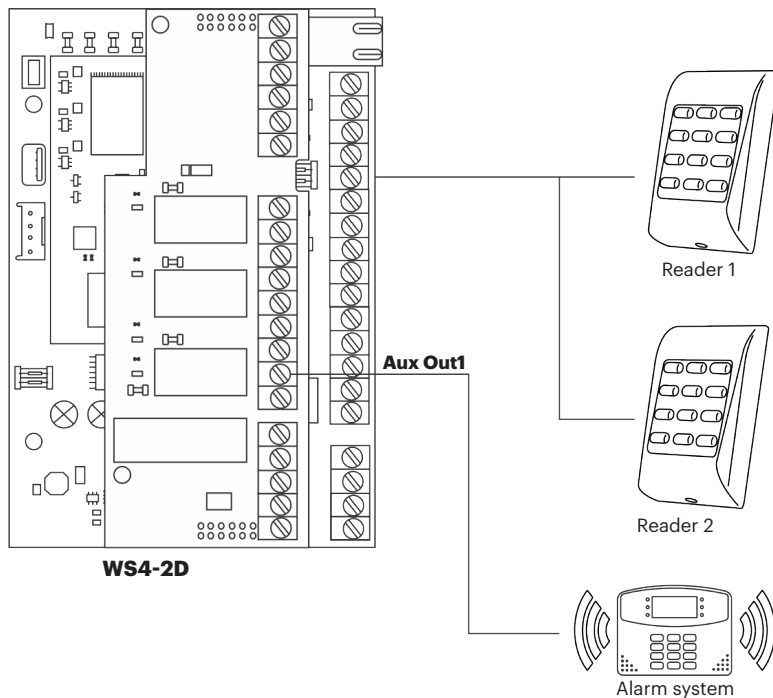
ONLine Access

Integrate alarm in WS4

0002

When the first user enters the premises, the Alarm will be automatically disarmed, when the last user leaves the premises, they type a PIN Code, all the readers are beeping, and after the beep, the Alarm is armed. The delay after typing the PIN Code can be set from 5 to 60 seconds. In the same period, the readers are beeping, indicating that the alarm system will be turned ON. This signal warns the users who could still be inside that the alarm will soon be armed. They must then quickly identify themselves on one of the readers of the installation. At the end of the selected time, if no one has manifested, the presence relay is switched off. The firmware for this option is 2.30 and higher.

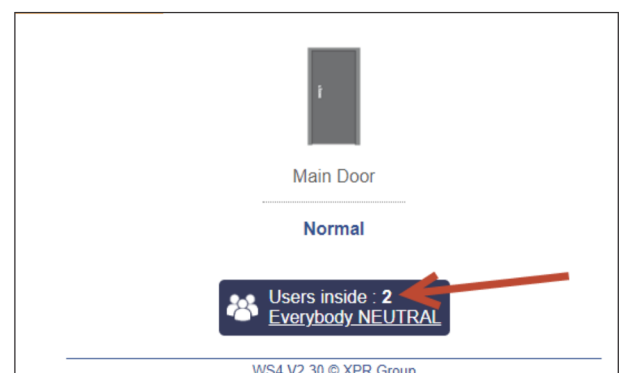
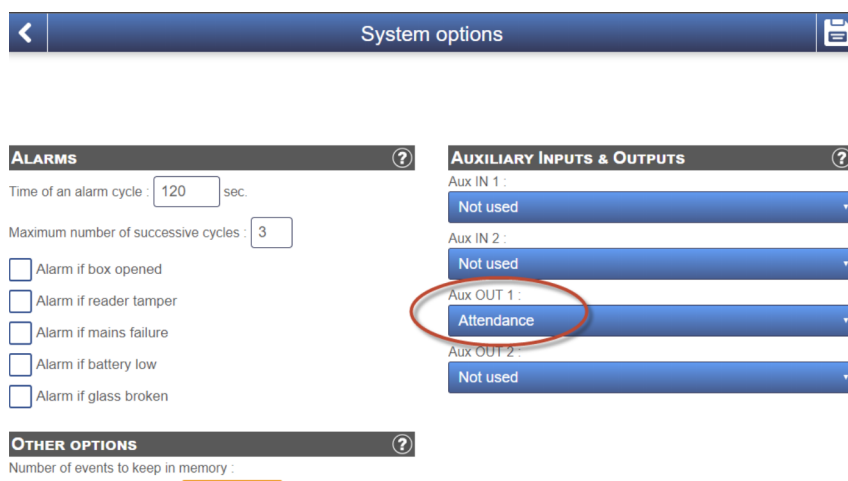
WIRING



For alarm application, you need one or two Keypad+Proximity readers. Connect the alarm system to Output 1.

SETTINGS IN THE SOFTWARE

Make the auxiliary Output 1 to be activated by "Attendance". With this, the Output will be activated as soon as there is at least one person in the premises (first man in), and it will deactivate when the premises are empty (last man out). Go to **Settings/System options** and for Aux Out 1 select **"Attendance"**.



If you use two readers (in and out), set the first as “Input” and the other as “Output”. It is best if you put the readers in Anti-Pass back, so the counting of the users would be correct.

The screenshot shows the 'Main Door' configuration page. Under the 'GENERAL' tab, 'Name of the access' is 'Main Door' and 'Type of access' is 'Access with 2 readers'. 'Location' is set to 'Input / Output'. 'Lock time' is 3 seconds. 'Anti-passback (APB)' is checked. Under 'FREE OUTPUT PUSH BUTTON', 'Active period' is set to '---'. Under 'READER A', 'Cabling' is 'on LB2, reader at address 0 (jump opened)', 'Location' is 'Input', and 'Card' is '125kHz (EM4100)'. Under 'READER B', 'Cabling' is 'on LB2, reader at address 1 (jump closed)', 'Location' is 'Output', and 'Card' is '125kHz (EM4100)'. Red circles highlight the 'Location' dropdowns for both readers.

If you use one reader, put it as “Input”.

The screenshot shows the 'Main Door' configuration page with 'Type of access' set to 'Access with 1 reader'. 'Location' is set to 'Input / Output'. Under 'READER A', 'Cabling' is 'on LB2, reader at address 0 (jump opened)', 'Location' is 'Input', and 'Card' is '125kHz (EM4100)'. A red circle highlights the 'Location' dropdown for Reader A.

Go to **Settings/User options** and set the **PIN Code** that will be used for arming the Alarm. It is actually **Reset Code** for attendance. As soon as it is typed, the Attendance will go to 0 and Aux Output 1 will be deactivated. You can select the time how long the delay would be for the alarm, by selecting the time for “Buzzer when the last person leaves”

You can choose the time at which you want to reset all users to Neutral. When reset time is selected, all the reader backlight are RED. At the end of the selected time, even if some users have forgotten to swipe the card/fob f 3 times during the unlock time on entrance or exit reader, the AUX OUT relay is switched OFF.

The screenshot shows the 'USER FORM' and 'ATTENDANCE' settings. Under 'USER FORM', 'Separate fields for Name & First name' is unchecked. Under 'Name of the fields', there are three input fields labeled 'Field 1', 'Field 2', and 'Field 3'. Under 'ATTENDANCE', 'Reset time' is set to '23h 30', 'Buzzer when the last person leaves' is set to '10 sec.', and 'Reset code' is '11122'. A red circle highlights the 'Reset code' field.

➤ HOW TO USE ALARM CODE

When the last person leaves, all readers of the installation will emit an intermittent sound, or when all present users are reset to neutral. If the relay attendance is used to control a burglar alarm system, this signal warns users who could possibly still be inside that the alarm will soon be armed. To reset the attendance relay and activate the burglary alarm system, the last user must identify themselves and swipe the card/fob 3 times during the unlock time on the entrance or exit reader. At the end of the selected time, if no one is identifying himself on the entry/exit reader, the AUX OUT relay is switched OFF.

PIN code is used to reset to a neutral state for all the users still inside. It can be used from any access point with a keypad.

If you want to change the PIN Code length, go to Settings/Configuration of readers.

The screenshot shows the 'Configuration of the readers' interface. It has a top bar with a back arrow, the title 'Configuration of the readers', and a save icon. Below the bar are two main sections: 'WIEGAND / HID FORMATS' and 'OTHER OPTIONS'. The 'WIEGAND / HID FORMATS' section contains four format options: 'Format 1 : 32 bits: RAW', 'Format 2 : 26 bits: RAW', 'Format 3 : 26 bits: P[e:2-13] | Code:24b | P[o:14-25]', and 'Format 4 : 26 bits: P[e:2-13] | Site:8b | Code:16b | P[o:14-25]'. There is also a 'Site :' input field. The 'OTHER OPTIONS' section, which is circled in red, contains 'Keypad code of fixed length : 5 digits' and 'Backlight : ON'. Both sections have a help icon (?) next to their titles.

If you are using Anti-passback, make sure that the Users are in a category that is subject to Anti-passback. Please note that, by default, the Full Access category is not subject to Anti-passback.

The screenshot shows the 'FULL ACCESS' configuration interface. It has a top bar with a back arrow, the title 'FULL ACCESS', and icons for delete and save. Below the bar are three sections: 'GENERAL', 'SCHEDULE', and 'DOORS'. The 'GENERAL' section has 'Name of the category : [id:1] FULL ACCESS' and a circled checkbox 'NOT subject to Anti-passback'. The 'SCHEDULE' section has 'Weekly schedule : 24h a day, 7d a week' and a checkbox 'Allowed during forbidden periods'. The 'DOORS' section has 'List of authorized doors' with options 'All the doors' (checked) and 'Main Door'. A warning message is present: 'Warning, if this option is checked, even the doors that will be created later will be allowed.' The footer shows 'WS4 V2.30 © XPR Group'.