Regulations regarding Net2 and intruder alarm systems

Overview

This document identifies the key regulatory issues that installers must consider when integrating Net2 with an intruder alarm system.

Code of Practice DD243: 2004

The Association Of Chief Police Officers has introduced a CODE OF PRACTICE BS8243:2010 (formally DD243: 2004) to ensure that alarm systems can only generate confirmed alarm conditions. (UK only)

Key features include:-

- The intruder alarm system must be installed so that there can be no entry into the supervised premises until the intruder alarm system has been unset.
- No alarms can occur at any time after the initial entry door has been unlocked.
- The alarm status should not be displayed externally, except for a maximum of 180 seconds after setting the intruder alarm and 30 seconds after unsetting the intruder alarm.
- Any powered external door lock should remain secure (i.e. no false release) for a minimum of 4 hours in the event of failure of the prime power source.

Regulations In the UK

Net2 alarm integration is suitable for use with PD6662: 2004, and can be configured to comply with BS8243:2010. See also: AN1035 - Integrating Net2 with an intruder alarm < http://paxton.info/91 >

From 1st October 2005, BS 4737 and other similar British Standards were no longer required for new installations.

STATEMENT
This feature is suitable for use in PD6662: 2004, security grade 1, 2 & 3 and environmental class I, II and III intruder alarm systems and can be used in a BS8243:2010 compliant installation.

PD6662: 2004 (also refers to EN50131-1:2004)

The key issues to understand are:-

This and other intruder alarm system regulations refer to 'access levels' as a means of defining the authorization required to program and manage the alarm system. These should NOT be confused with Net2 access levels.

Access level 2 authorization is required for any user who has alarm set and unset privileges. Level 2 is also a requirement to view the Event Log. Therefore it is important to ensure that only intruder access level 2 users are given Net2 operator status.

Access level 3 authorization is required for adding or deleting intruder level 2 users and codes. Therefore it is important to ensure that only intruder access level 3 users are given Net2 supervisor or card administrator status.

Technical specification document TS50131-3: 2003 refers to the need to act upon the repeated use of incorrect authorisation keypad codes. By using Paxton PROXIMITY readers to set and unset the alarm, no keypad is required.

It must not be possible to compromise the alarm system by substituting external component parts. This is not considered possible with Paxton PROXIMITY readers.

Regulations for the rest of Europe

EN50131-1:1997 applies. However, regional variances or opt-outs may also apply so advice would need to be offered on a per country basis.

The key requirements of EN 50131-1 : 1997 are contained within PD6662:2004 listed above.

On Grade 3 security systems, there must be a minimum of 10,000 potential user codes. By using a Paxton PROXIMITY reader as above, this limit is easily exceeded. (99,999,999)

STATEMENT
This feature is suitable for use in EN50131-1: 1997 security grade 1,2 & 3 and environmental class I, II, III intruder alarm systems.

Number and positioning of Paxton Proximity readers

For compliance with BS8243:2010 two separate PROXIMITY readers and Net2 ACU's must be used to set and unset the system.

The Paxton PROXIMITY reader used to UNSET the system must be located outside of the protected premises preventing entry to the supervised area before the intruder alarm system is unset.

The Paxton PROXIMITY reader used to SET the intruder alarm system should be located close to the intruder alarm system panel; the alarm status should be visible during the setting procedure.

The system should be configured as detailed in:
AN1035 - Integrating Net2 with an intruder alarm < http://paxton.info/91 >

Status LED's - Reader indication

Any ACU that has the alarm panel status connected will display the following indications:-

Default (Access Control - Idle) - Alarm Set or Unset - 3 LED's displayed.

UNSET the Alarm	- Successful.	Flashing Red and Amber then Flashing Green (door unlocked).
	- Failed.	Flashing Red and Amber then 3 LED's.
SET the Alarm	- Successful.	Red LED for 30 seconds followed by 3 LED's.
	- Failed.	Flashing Green LED for 7 seconds then 3 LED's.

(The intruder alarm panel should be programmed to give an audible warning if it fails to set.)

Tamper circuit

For additional security it is recommended that a tamper loop be used in the multi-core cable that connects the Paxton control unit to the intruder alarm system panel. Wiring details and programming for a Tamper circuit will vary but should be described in the intruder alarm system documentation. This will enable detection if the connection cable is cut.

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