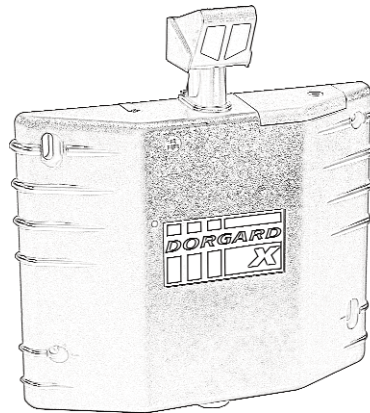




Fitting and Operating Guide

plus

Maintenance Test Record



This is an important document detailing the correct installation, usage and maintenance of the Dorgard X. This must be used in conjunction with the System X Fitting and Operating Guide.

This Guide must be read and fully understood before you start installation and be kept in a safe place such as your Fire Risk Assessment File.

Keep this Guide in a safe place.

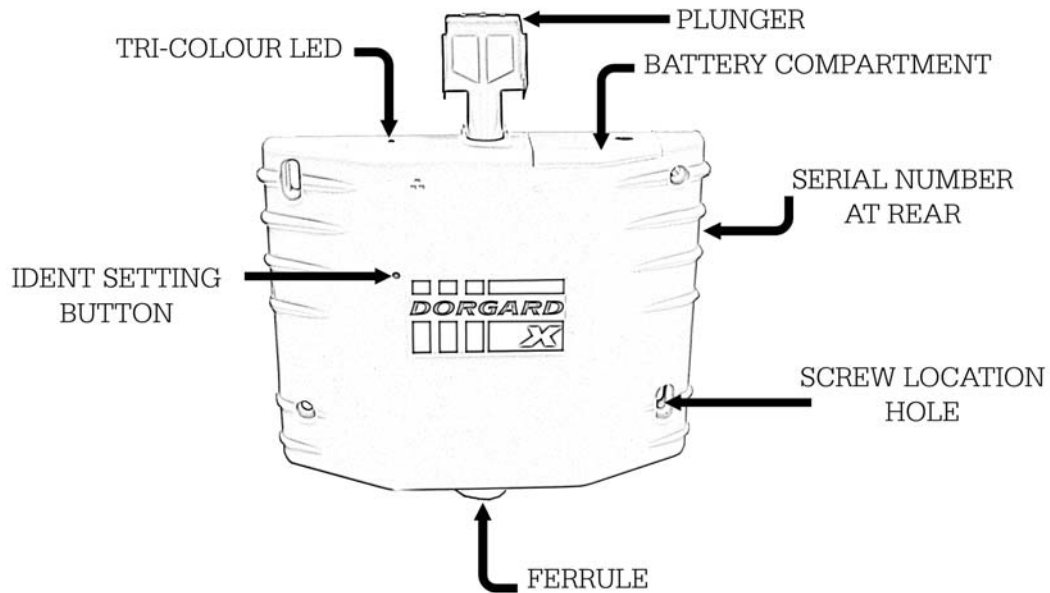
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Introduction

Dorgard X is a Battery operated device designed to hold open a fire door safely and legally. It will automatically release upon receiving a signal from System X. Dorgard X can be used to hold the fire door in any position between open or closed and can only be used in conjunction with System X.

It is recommended that a fire door is not retained at an angle of less than 65 degrees.

Any number of Dorgard X units can be Linked to any one System X unit within range, although a Site Survey must be carried out prior to Installation. Contact your supplier or contact the Technical Advice Line if you have any questions.



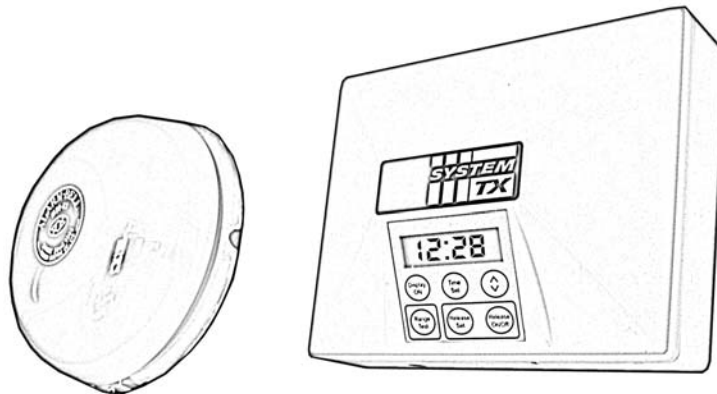
Prior to Installation

Prior to installation ensure:

1. That a suitable Automatic Fire Detection alarm system is installed.
2. The fire door is self-closing i.e. has a door closer fitted.
3. The fire door closes tightly against the door jamb.
4. Where Dorgard X is to be fitted, the floor and door surfaces are smooth and flat.
5. You have determined the closing force of the door.
6. The fire alarm system is working correctly, i.e. the sounders work when activated.
7. A Site Survey has been completed.
8. There is clearance under the fire door for fitting of the Floorplate, i.e. 5mm.
9. Dorgard X forms part of your Fire Risk Assessment (as required by the Fire Precautions [Workplace] Regulations 1997, also required by the Regulatory Reform (Fire Safety) Order 2006).

Note. Dorgard X will hold a door open once the Ident has been set and Linked correctly to the installed System X unit.

When Dorgard X is holding a fire door open, the System X listens continually for the sound of your fire alarm. When the alarm sounds, the System X unit will verify the alarm over a 20 second period and then send a signal to the Dorgard X to release its fire door.



Important Information

Dorgard X must only be used for the purpose for which it is designed. It is not suitable for external use. Read this Guide and follow the instructions carefully. Keep this Guide in a safe place e.g. in your Fire Risk Assessment file, for future reference.

BS EN1155:1997 states that a door must not be retained at an open angle of less than 65 degrees. It is recommended that the Floorplate be installed to comply with this standard.

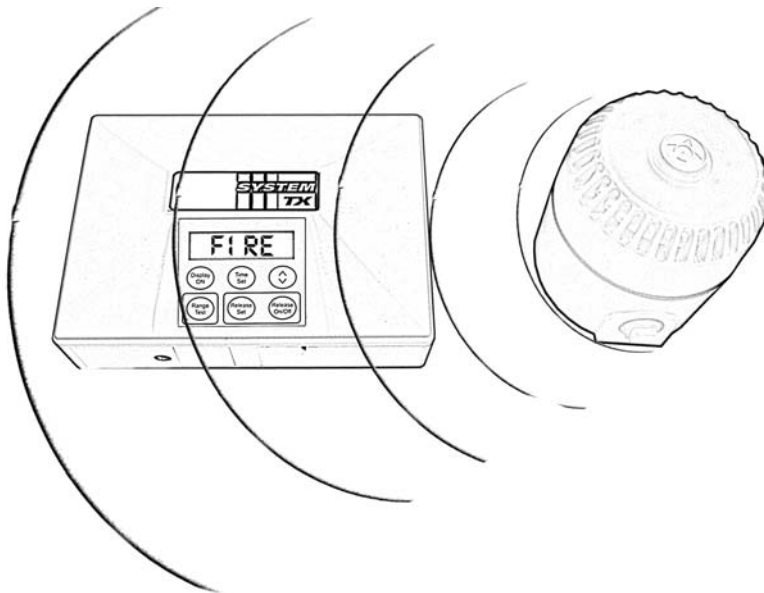
Dorgard X, when installed correctly with the System X transmitter, complies with BS 7273-4 Category B.

Supplementary information about the sound of a fire alarm:

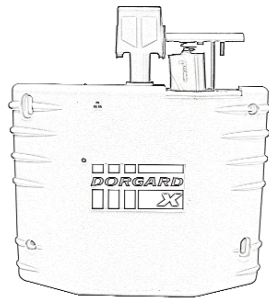
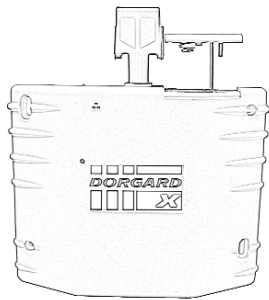
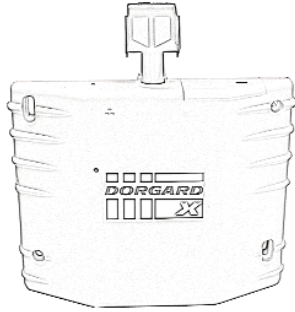
The British Standard for fire alarm installation, BS5839-1: 2002, (Clause 16.2), states: -

The sound pressure level of alarm signals should be generally, throughout all accessible areas of the building not less than 65dB(A) . . . where the sound pressure level of background noise is greater than 60dB(A), the sound pressure level of the fire alarm signal should be 5dB above the sound pressure level of the background noise.

In practice this rarely is the case and many alarms are masked by background noise levels, particularly in noisy environments such as pubs and clubs.



Batteries - use 2 x C Size LR14



Batteries - Alkaline only, do not use rechargeable Batteries.

The 2 x C Size Procell Alkaline Batteries supplied should last for at least 12 months. Dorgard X continually checks the battery life to ensure safe operation.

1. Open Battery Compartment using a screwdriver.
2. Insert the Batteries into the Battery Compartment (+) positive side facing up. Inserting the Batteries the wrong way could cause damage.
3. When closing the Battery Compartment take care not to over tighten.
4. The Dorgard X will beep and the LED will flash after Battery installation.

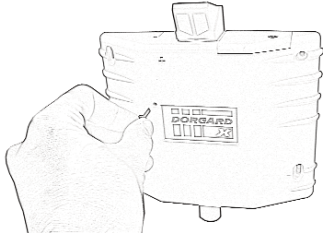
If after installing a set of new batteries in the Dorgard X unit it still fails to operate i.e. the plunger will not stay down, check the condition of the Batteries in the System X unit.

When the Batteries require changing in System X all Dorgard X units will Fail to Safe (no longer work as a hold open device).

When the Batteries in the Dorgard X unit require changing only the affected units will Fail to Safe. A warning beep will sound until the Batteries are exhausted, removed or replaced with new ones.

Note. Dorgard X will retain Ident settings when Batteries are removed or replaced.

Setting the Ident



Dorgard X can be set to 16 separate Identity Settings (Idents) so if there are multiple System X units within range, Dorgard X will only respond to the System X unit to which it has been programmed.

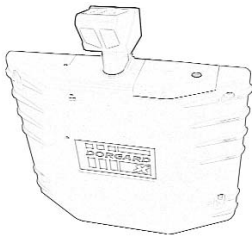
A requirement for this may be that Dorgard X units on one floor or zone need a Night-time Release function.

It is recommended that Ident's are set before fitting the Dorgard X onto the fire door.



Setting Ident's on Dorgard X:

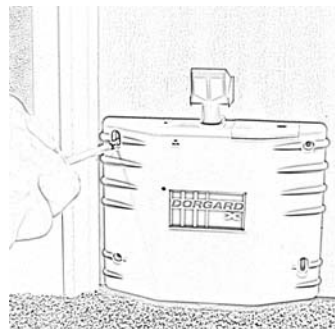
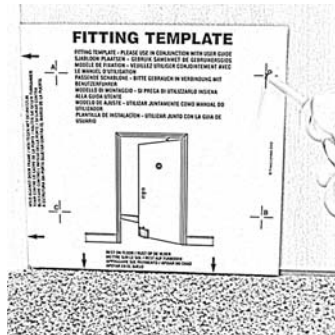
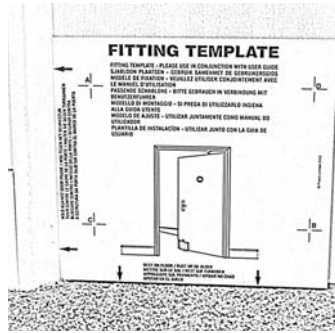
1. Choose an Ident setting on the System X unit (see System X Fitting and Operation Guide).
2. With Batteries installed depress the plunger.
3. Using the Plastic Screwdriver supplied gently press the Ident Button on the front of Dorgard X. Hold this button down until the LED located on the top of the unit lights up green.
4. On System X press and hold Button 2 TIME SET and Button 5 RELEASE SET simultaneously until SET and the Ident code is displayed on the LCD. System X is now sending the Ident code to all Dorgard X units.
5. When Dorgard X has successfully received the Ident Setting the drive unit will be heard and the plunger will release.



Note. Multiple Dorgard X Ident's can be set at the same time.

It is suggested that the Ident is set with all units in close proximity of the System X unit, e.g. on a table top.

Installation

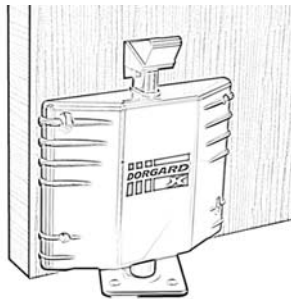
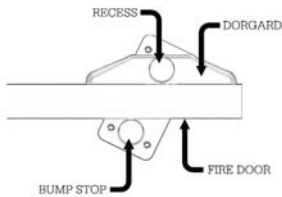
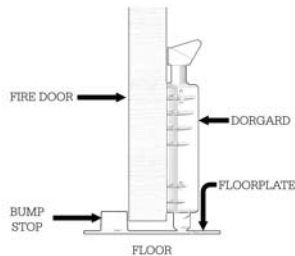


1. Install Batteries and set Ident.
2. Close the fire door. Place the Template provided against the door on the side that shuts against the door frame. Ensure the Template matches your view of the door.
3. Please make allowance for differing floor surfaces.
4. Make pilot holes or mark the position for the holes through the Template.
5. Using 2 of the 4 Screws supplied, fix Dorgard X to the fire door at points A and B on the fitting Template. This will allow Dorgard X to be moved up and down slightly for correct positioning. The correct position is when the Dorgard X Plunger is fully retracted, the door can swing free. When the Dorgard X plunger is depressed, contact with the floor or Floorplate holds the door open. When Dorgard X is in the correct position fasten down all 4 Screws.
6. Affix a Fire Door Sticker both sides of the fire door, at eye level.

Note. Dorgard X will not operate until the Batteries have been inserted and the Ident has been set.

Batteries can be removed or inserted when a Dorgard is affixed to a door. The Ident Setting will be retained.

Floorplate Installation



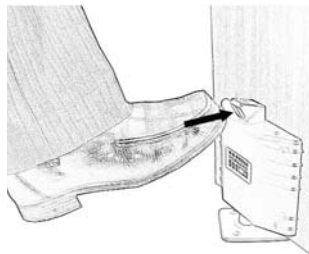
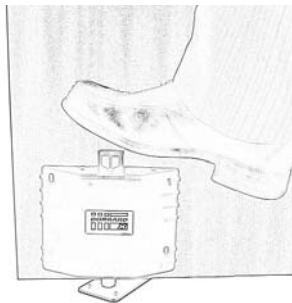
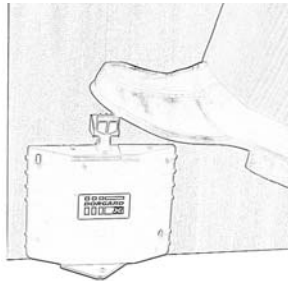
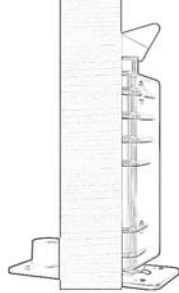
IMPORTANT: Fit Dorgard X to a door before fitting Floorplate.

Warning! Before drilling holes or fastening Screws into the floor, check the location of water pipes, electrical cables, gas pipes etc. Failure to do so could cause disruption to the building's services and may result in serious injury or death.

1. Open the fire door to 90 degrees or to the desired open position greater than 65 degrees. Slide the Floorplate under the fire door with the Bump Stop part positioned behind the door and as close to an adjacent wall as possible to avoid tripping hazards.
2. Depress the Plunger on Dorgard X so that the Ferrule sits in the recess of the Floorplate.
3. Slide/swivel the Floorplate so that the Bump Stop comes into contact with the back of the door, ensure that the Ferrule is still sitting centrally in the recess of the Floorplate.
4. Mark the position of the Floorplate holes on to the floor surface.
5. Remove the Floorplate.
6. If the floor is concrete, drill 4 x 6mm holes (approximately 40 mm deep) at the positions marked and insert the Masonry Plugs supplied.
7. Position the Floorplate over the Masonry Plugs or marked points and fasten the Floorplate to the floor using the Screws supplied.
8. Open the fire door against the Bump Stop and depress the Plunger. If you have positioned the Floorplate correctly the Ferrule should fit neatly into the recess of the Floorplate. If not go back to step 3 and reposition the Floorplate.

Note. The Floorplate allows Dorgard X to withstand the strongest closing force as defined in BS EN 1155 and it prevents slippage on smooth surfaces & in other conditions such as where a person's weight might cause a wooden floor to bounce.

Dorgard X Operation



To hold the door open:

1. Open the door to the required position.
2. Stand sideways to the door.
3. Depress the Plunger down using your foot. Greater foot pressure may be needed depending upon the force from the door closer or the type of floor surface.
4. Whilst depressing the Plunger, push/pull the door gently in the direction of closing.
5. Remove your foot and let go of the door.

To release Dorgard X, either:

- A. Lightly tap the Plunger towards the fire door with your foot.

or;

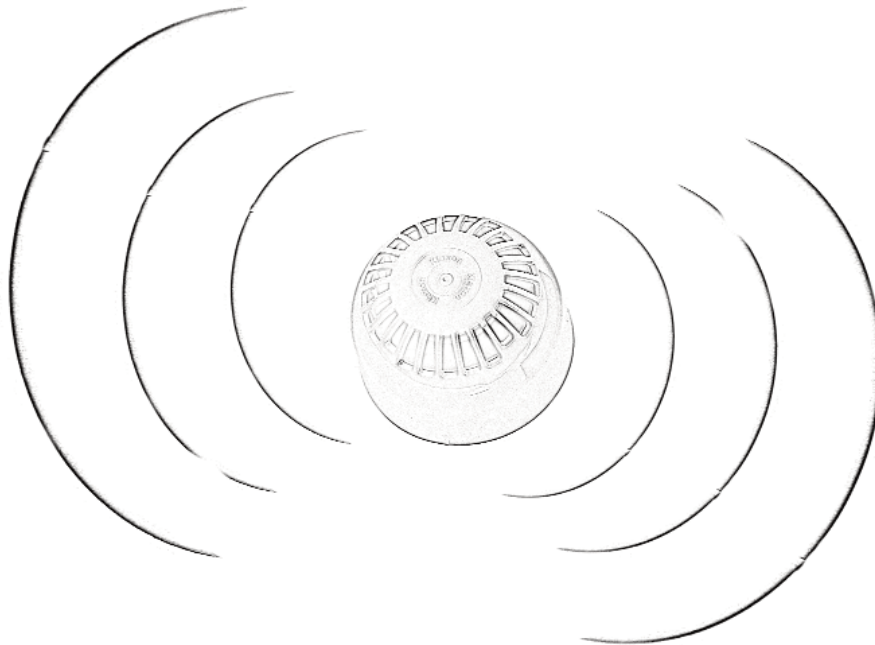
- B. Push the door in the direction of opening.

Note. If the door has been pushed hard against the Floorplate Bump Stop or a wall, then Dorgard X will only release by method B.

Fire Alarm Test

1. Open the fire door and press down on the Plunger.
2. Check that the System X installation is correct (refer to System X Fitting and Operating Guide).
3. Sound the fire alarm for a minimum of 30 seconds.
4. The LED on top of the Dorgard X will flash every 1.3 seconds if it is receiving a signal from the System X unit.
5. Dorgard X will release the fire door in approx. 20 seconds.
6. When Dorgard X is ready to release the door, it will sound a 'Hi Lo' warning tone repeated 8 times before releasing the door.
7. System X transmits a Call-in message every 10 minutes to check the integrity of the system. If Dorgard X fails to receive 5 messages in a row it will release the fire door and Fail to Safe.

Note. Although System X conducts a self test with Dorgard X every 7 days, weekly bell tests are highly recommended. This will ensure that System X is responding to your fire alarm.



Night-time Release



Dorgard X can be used to hold a fire door open 24 hours a day. It is recommended however, that fire doors are closed at night as the chance of a fire spreading undetected is greater than during daylight hours.

To ensure that fire doors are closed at night, Dorgard X can be set to release at a pre-set time and then will not operate as a hold open device until it receives a signal to do so. The time of this signal can also be pre-set.

The System X unit is used to set the Night-time Release function. Refer to the System X Fitting and Operating Guide for details.

Trouble Shooting

The following are the most frequently asked questions regarding Dorgard X.

1. Why is Dorgard X not releasing when the Fire Alarm sounds?

- Range Test the system (refer to System X Fitting and Operating Guide).
- Has the Ident been set (refer to System X Fitting and Operating Guide).
- Check fire alarm sounds for at least 30 seconds.
- Check fire door is free to close unhindered.
- Check that the Plunger has a minimum of 10mm of down travel before the Ferrule contacts the floor or Floorplate.
- Check the fire alarm is louder than 80 decibels where the System X unit is situated.
- Adjust the sensitivity of the System X unit (see System X Fitting and Operating Guide).

2. Why does Dorgard X release if the fire alarm is not sounding?

- Check that Dorgard X is fitted to the side of the door that closes into the door frame.
- Dorgard X will release when the door is pushed in the direction of opening. To prevent this happening fit the Floorplate supplied.
- Dorgard X listens out for Call-in messages from System X. If it misses 5 Call-ins in a row it will Fail to Safe, i.e. release.
- Dorgard X will release every 7 days as part of its self-testing routine.
- Check Night-time Release settings on System X.
- Check operation of the System X unit.
- Adjust the sensitivity of the System X unit (see System X Fitting and Operating Guide).
- Check Batteries on Dorgard X, is unit beeping?
- Check Batteries in System X - see System X User guide, is unit beeping?

Trouble Shooting *continued*

3. Why does my door creep closed with Plunger fully depressed?

- Check that the Ferrule is not worn or damaged. Replace as necessary.
- Check that Dorgard X is positioned low enough that the Ferrule makes good contact with the floor when the Plunger is depressed. A vertical Plunger movement of 10-15mm is ideal. Re-position as necessary or fit the Floorplate supplied.
- Check that the overhead door closer does not shut the door with excessive force. If so, fit the Floorplate supplied or adjust pressure on overhead closer (refer to manufacturers instructions).
- Check that the Ferrule has enough grip on the floor surface i.e. floor surface is not too slippery. If so, fit the Floorplate supplied.

4. Why does Dorgard X not retain the door in an open position.

- Check that the Plunger is depressed.
- Check Ident has been set.
- Check that the Battery Compartment is closed, the Batteries are correctly installed and are of sufficient life in both Dorgard X and System X.
- Check that Dorgard X is not fitted too low or high on the door. A vertical Plunger movement of 10-15mm is ideal for the Plunger to lock down properly.
- Check that Dorgard X is fitted to the side of the door that closes into the door frame.
- Check Dorgard X has not Failed to Safe.
- Remove Batteries and wait 10 seconds before reinserting them in the Dorgard X to reset the unit.

If all the above points are satisfied and further assistance is required please contact the Technical Advice Line.

Error Messages

Beep / Flash Sequence	What it means	What to do
During Power up		
LoHi-LoHi-LoHi	Indicates Battery Lift is open during power up	No action required
Long Tone	Indicates start of power up test	No action required
During standard operation		
---(32secs)------(32secs)---*---(32secs)---*---etc.	LED indicates that the system is working properly	No action required
HiLo – HiLo – HiLo – HiLo – HiLo – HiLo – HiLo – HiLo *-----*-----*-----*-----*-----*-----*	Dorgard X is about to release door	No action required
LoLoLoHi * Tone and flash sequence is followed by the sound of the motor driving	Dorgard resetting ready for re-activation	No action required

* LED flash

Maintenance Schedule

Preventative maintenance and regular testing will ensure that Dorgard X functions correctly at all times. Ensure you update the Maintenance Record.

Weekly

It is recommended that weekly alarm tests are carried out and recorded in your Maintenance Record. Check that the Dorgard X Plunger is depressed and is holding the door open. Sound the fire alarm or perform a Range Test as per the instructions for System X. The fire door should have released after 30 seconds. If the fire door does not close refer to the Trouble Shooting section.

Monthly

Carry out the weekly test and in addition dust the unit. Ensure Floorplate is securely fixed and has not been damaged.

6 Monthly

Carry out the weekly and monthly schedule and in addition, check:

1. Under the unit for the condition of the Ferrule.
2. The Dorgard X unit is firmly attached to the door.

If any items are worn, torn or damaged then replace immediately. For further assistance contact the Technical Advice Line.

Yearly

Carry out the 6 monthly schedule and replace the Batteries (the Ident will be retained).

Note and Warning

- The unit is designed to detect low Battery power or possible faults, it will give a continual warning (sound a series of beeps) and will Fail to Safe (no longer operate as a hold open device).
- When the System X unit detects a low Battery condition it will send a message to all Dorgard X units to Fail to Safe, i.e. release.
- A Self Test command is sent from the System X transmitter 12 hours after installation, then weekly at midnight on the set day (see System X Fitting and Operating Guide). During the Self Test, if the fire door is held open, Dorgard X will release the fire door. Should Dorgard X detect an internal fault it will sound a warning tone and Fail to Safe.
- If the Self Test at midnight is unsuitable it is possible to change it by putting the System X clock forward. e.g. for a Self Test to happen at Midday the clock should be put forward 12 hours.

Maintenance Record

The log sheet below is designed to cover a 12 month period and should be filled out after each test. This log is a formal record of the test and maintenance schedule carried out by a competent (responsible) person(s) throughout the history of the installation of the Dorgard X unit. Further log books are available from the Technical Advice Line.

Serial Number:

Location:

Serial Number is on back of Dorgard X unit.

Installation Date:

Installed by:

Week	Result (tick)	Date	Sign	Week	Result (tick)	Date	Sign
1				27			
2				28			
3				29			
4				30			
5				31			
6				32			
7				33			
8				34			
9				35			
10				36			
11				37			
12				38			
13				39			
14				40			
15				41			
16				42			
17				43			
18				44			
19				45			
20				46			
21				47			
22				48			
23				49			
24				50			
25				51			
26				52			

Commissioning Certificate

Certificate of commissioning for the electrically powered hold-open device(s) (please delete as appropriate) at: Address:.....
.....
.....

I/we being person(s) responsible (as indicated by my/our signatures below) for the commissioning of the above, particulars of which are set out below, CERTIFY that the equipment and release arrangements I/we have commissioned complies to the best of my/our knowledge and belief with the recommendations of BS 7273-4:2007 for the category of actuation described below, except for the variations, if any, stated in this certificate.

Name (in block letters):.....Position:.....

Signature:.....Date:.....

For and on behalf of:.....

Address:.....
.....

.....Postcode:.....

The extent of liability of the signatory is limited to the equipment and arrangements described below.

- (tick appropriate) Category A (hardwired System X with Dorgard X)
 Category B (acoustically activated System X with Dorgard X)
 Category C (acoustically activated Dorgard)

Variations for the recommendations of BS 7273-4 (Clause 7).....
.....
.....

Brief description of release mechanisms, method(s) of actuation (see 7277-4:2007, Clause 8) and system design (see BS 7273-4:2007, Clause 10).....
.....
.....

- All equipment operates correctly.
 Installation work is, as far as can reasonably be ascertained, of acceptable standard.
 I/we have carried out commissioning in accordance with recommendations of BS 7273-4:2007, 21.5)
 Suitability documentation has been completed before/after (delete as applicable) release mechanisms become operational.....
.....
.....

Maintenance: It is strongly recommended that, after completion, System X is maintained in accordance with BS 7273-4:2007, Clause 22.

User Responsibilities: the user should appoint a responsible person to supervise routine testing of release mechanisms in accordance with BS 7273-4:2007, 22.1 and to supervise all matters pertaining to the associated fire detection and fire alarm system in accordance with BS 5839-1:2002, section 7.

Manufacturer's Warranty

Fireco Limited (“we” and “us”) warrants to the customer (“you” and “your”) that the product will be free from defects in material and workmanship for a period of 12 months from the date of purchase. If the product is defective whilst under warranty we will, at our option, repair the product or replace it free of charge.

If the product appears to develop a defect while under warranty please first check that the product is being correctly used in accordance with this Fitting and Operating Guide and that the Batteries are functioning. If this does not resolve the problem please contact us in writing at the e-mail address shown below or telephone the Dorgard Technical Advice Line.

The warranty does not apply to any defect in the product arising from fair wear and tear, wilful damage, accident, negligence by you or any third party, abnormal working conditions, failure to follow the instructions in this Guide, misuse or alteration or repair of the product without our prior approval. The warranty does not cover Batteries and Ferrules which may need to be replaced within the period of the warranty. We will not be liable to you for any loss of profits, administrative inconvenience or indirect or consequential loss or damage arising out of any defect in the product.

Where the products are sold under a consumer transaction (as defined by the Consumer Transactions (Restrictions on Statements) Order 1976) your statutory rights are not affected by the terms of this warranty.



Version 1.03