

Technical Support

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Technical help is available: Monday - Friday from 07:00 - 19:00 (GMT)
Saturday from 09:00 - 13:00 (GMT)

Documentation on all Paxton products can be found on our website - <http://www.paxton.co.uk/>

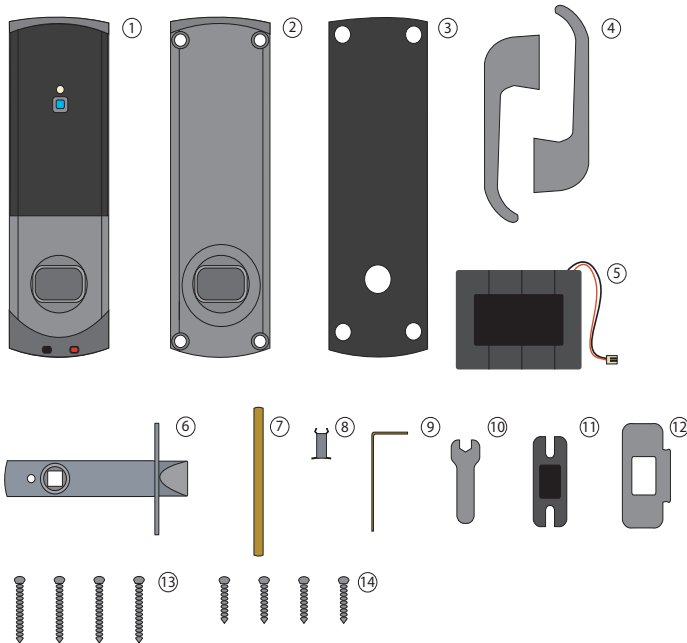


This wireless unit requires a Net2Air bridge to communicate with the server PC.

This unit is for indoor use only.

This unit requires Net2 v4.23 or later software. Call Technical Support if you require advice.

Parts list



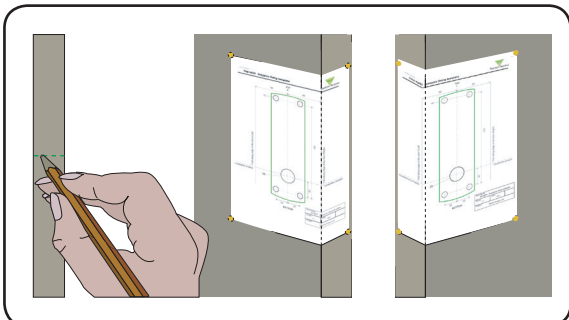
- 1) Front Lock Assembly
- 2) Rear Lock Assembly
- 3) Rubber Escutcheon x2
- 4) Left and Right Handles
- 5) Battery Pack
- 6) Tubular Mortice Lock
- 7) Spindle
- 8) 8 mm Conversion Sleeve
- 9) 2 mm Allen Key
- 10) 8 mm Spanner
- 11) Strike Plate Backbox
- 12) Strike Plate
- 13) Long Mounting Screws x4
- 14) Short Mounting Screws x4

Tools List

- Power Drill
- Drill bits 10 mm, 25 mm
- Philips screwdriver
- Hacksaw for cutting bolts
- Hammer / Mallet
- Chisel 25 mm

- Stanley knife
- Adhesive tape
- Pencil
- Tape measure
- 8 mm spanner (supplied)
- 2 mm Allen key (supplied)

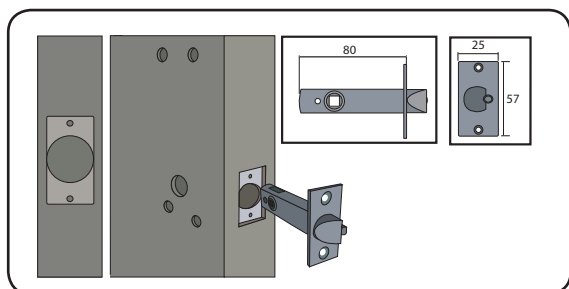
Installing the hardware



Step 1 - Marking out

Decide on the lock height and mark this on the door.

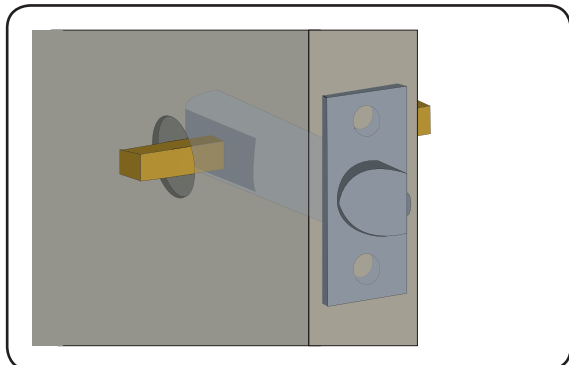
Fold the template along one dotted line and tape it to the door with the 'Centreline of Latch' at the required height. Mark the 4 x 10 mm and 1 x 25 mm holes. Remove the template, fold along the other dotted line and apply it to the other side of the door at the same height. Mark the holes as before.



Step 2 - Drilling

Drill a 25 mm hole in the door edge at least 80 mm deep to accept the latch.

Drill the 4 x 10 mm holes for the mounting screws and one 25 mm hole for the spindle. To ensure accuracy you should drill these holes from both sides of the door towards the centre. This also avoids the risk of damaging the door face when the drill breaks through.

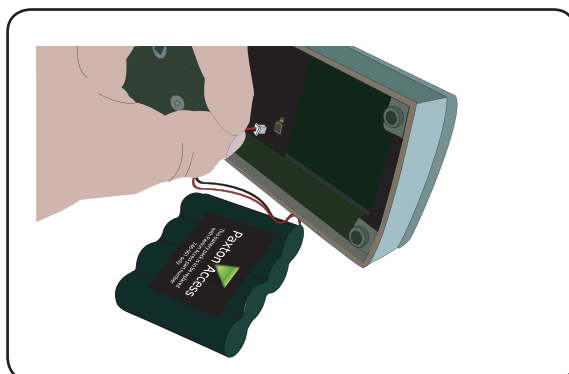


Step 3 - Fitting the latch

Slide in the latch and draw around the faceplate. Remove the latch and score the outline with a Stanley knife to avoid splitting the wood when chiselling.

Chisel a 3.5 mm rebate allowing a flush fit for the latch. Re-fit the latch with the plunger facing away from the door frame and secure with two latch screws.

Cut the spindle to length (Door thickness + 18 mm) and slide into the latch.

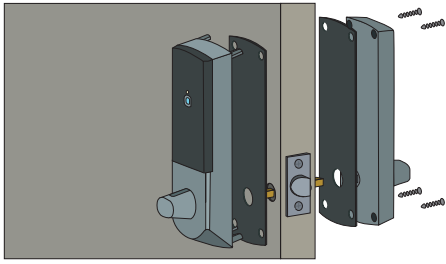


Step 4 - Fitting the battery pack

Remove the access plate at the rear of the unit by removing the top standoff screws. Push the battery pack lead onto the white power plug.

Fit the battery pack and replace the access plate.

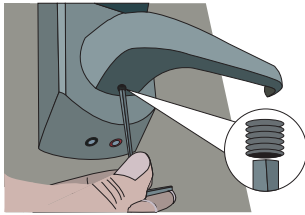
Step 5 - Mounting on the door



Select the short (doors thinner than 45 mm) or long mounting screws and cut to length if required. (door thickness + 5 mm)

Fit the rubber escutcheons to the front and back plates. Present the front and rear lock assembly to the door, locating the square drive in its recess and join the two parts together with 4 mounting screws.

Step 6 - Fitting the handles



Fit the two handles, positioning the screw holes to the underside and secure with the grub screws provided.

Check the operation of the lock - See Commissioning checks.

Step 7 - Marking out the strike plate

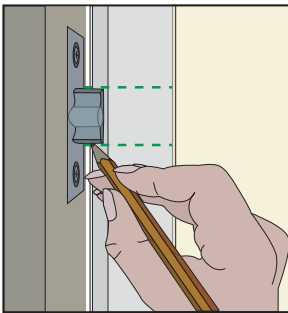


Fig A

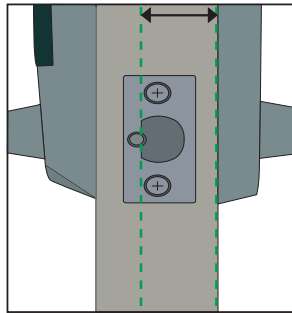


Fig B

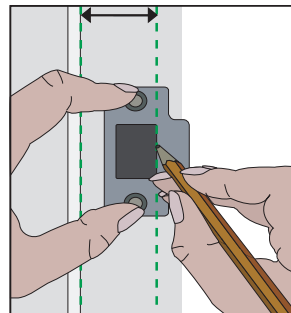


Fig C

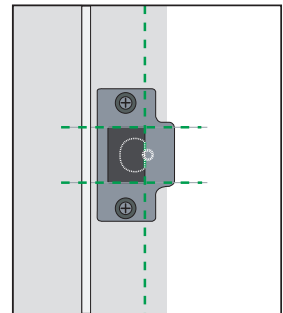


Fig D

Fig A - Vertical position of the strike plate - Close the door and mark the top and bottom position of the latch horizontally across the frame.

Fig B - Horizontal position of the strike plate - Measure the distance from the back edge of the door to the flat face of the latch. (NOT the plunger.)

Fig C - Mark this distance on the frame to show how far back the plate needs to be to hold the door closed.

Fig D - Position the strike plate within these guide lines. Mark the positions of the fixing screws and draw around the 'cut-out' in the strike plate.

Step 8 - Fitting the strike plate

Chisel out a 15 mm aperture to receive the latch bolt.
Fix the strike plate with one latch screw to the surface of the frame.

FROM THE INSIDE: Gently close the door and check that the latch enters the aperture easily with no additional 'play' in the frame. Small adjustments can be made by moving the plate slightly. When satisfied, draw around the outline of the strike plate, remove it. Score around the outline and then cut the rebate to enable the strike plate to lie flush with the surface.

Fix the strike plate using two latch screws and check the lock operation. Remove the strike plate and increase the aperture to accept the strike plate backbox. Now re-fix the strike plate and check the operation of the 'anti-shim' plunger and the door.

The unit is now fully operational and should be enrolled as soon as possible to preserve battery life.

Software installation

The Net2 software should be loaded on the controlling PC and at least one Net2Air bridge configured to communicate with the unit.

Full documentation is supplied with the Net2Air bridge unit and also on the website as follows:

[AN1051 - Installing Net2 software < http://paxton.info/1520 >](http://paxton.info/1520)
[Ins-30084 - Net2Air USB bridge < http://paxton.info/926 >](http://paxton.info/926)
[Ins-30085 - Net2Air Ethernet bridge < http://paxton.info/920 >](http://paxton.info/920)

Download the latest version of Net2 software at: <http://paxton.info/1438> before commissioning this product.

The current specification for compatible PC hardware, network and operating systems is available on our website at the following link: <http://paxton.info/720>

Net2Air wireless communication

The access control unit connects to the Net2 system using Paxton Net2Air proprietary wireless technology through a Net2Air bridge.

Radio signals do not always behave as you might expect. For example, a mobile phone that displays a full signal on one part of the site will lose signal completely only a few metres away.

See also: [AN1095 - Net2 wireless access control - How does it work? < http://paxton.info/974 >](http://paxton.info/974)
[AN1096 - How to plan a Net2 wireless installation < http://paxton.info/975 >](http://paxton.info/975)

Radio frequency

This product should not be installed within 3 metres of other wireless equipment operating on a 2.4Ghz frequency. To ensure optimum performance other wireless networks should avoid WiFi channels 11, 12 and 13 to reduce the possibility of interference.

Enrolling an Easyprox

An Easyprox must bind to a Net2Air bridge before it will enrol itself onto the Net2 system. The term 'bind' is used to denote the fixed relationship between a wireless unit and its bridge.

1. Create a user record in the database and assign a Net2 token to the user. This record can be deleted after the installation is complete.
2. You must now wake up the Easyprox. This can be achieved by either raising your hand to be detected by the PIR or moving the handle.
3. Present the same user token to the Easyprox which will then transmit the token number and wait for a response from a bridge.

The software has the 'Enable commissioning mode' set as a default. If this has been turned off in the Server Configuration Utility, it must be enabled for this process to succeed.

If more than one bridge replies, the Easyprox checks the signal strength and selects the strongest bridge to communicate with. The Net2 software confirms that the token number is in the database and if so registers this Easyprox/bridge binding.

An entry is then made on the Doors screen and a special icon is used to denote the wireless connection. 

There is NO Net2 Easyprox detection function. It is recognised that there could be security issues if the wireless units were detectable from outside the site. During installation, an Easyprox unit binds to a Net2Air bridge which will then only talk to registered units. The Server Configuration Utility also has an 'Enable commissioning' mode which can be turned off to inhibit other units being added.

Software Configuration

Door name: Name the Door.
Door open time: Set the door open time.
Unlock the Door during: Holds the door unlocked during this timezone. - Set to 'At No Time' for normal user operation.

Reader: Local settings for the reader.
Output: Configures the lock for timed release or toggle mode.
Events: Shows the events for this control unit only.
Access Rights: Lists users who have access through this door.

Name: The reader can be named individually if required.
Reader operating mode: Set the operating mode.
Timed operating modes: A different operating mode can be configured within a time window.

Normal Operation

Presenting a valid user token to the unit will cause the LED to briefly flash Green and the door will unlock. The presentation of a barred or unknown user token is indicated by a Red LED display.

The external handle is only engaged once access has been granted. The inside handle is always engaged.

A button on the inside allows the internal handle to be held in the unlocked position.

LED indications

Green flash	A valid user card has been presented and the handle is engaged
Red flash	An invalid user card has been presented - No access granted
Amber constant flashing	The unit is configuring - Please wait.
Blue	Power on self test running

Commissioning checks

With the product fixed securely to the door:

- 1) Extend the door open time by changing this door's settings on the Net2 PC. Set ' Door open time' to 20 seconds and then present a user card at the door. Before each check, present a user card to unlock the door.
- 2) Check that the handles are running smoothly, this is best done by depressing the handle all the way to the bottom and then releasing it as slowly as possible, if the handle is left behind at any point it is likely that the product has not been installed squarely enough. Check the handle on both sides of the door.
- 3) If your finger is able to leave the handle, remove the Easyprox from the door (or slacken the four fixing screws) and see if the problem goes away. If it does, then the installation onto the door is at fault and the drilling of the mounting holes should be checked for alignment.
- 4) Once the install has successfully passed this test return the door to normal operation by changing the PC setting for this door back to its previous door open time (default 3 seconds) and present a user card.

This test confirms the correct and free operation of the mechanical lock and also ensures that the electronic circuits will shut down correctly preserving battery life.

Sleep mode

The Easyprox is a standalone unit and stays asleep while there is no user activity. The Net2 server cannot wake up the unit. If the PIR is activated or the handle moved, it powers up the reader circuits in readiness for a token read. Should nothing occur within 3 seconds, the unit will go back to sleep.

If a token is read, then the Easyprox moves into full operation. The token number is checked against the stored database and access is granted or denied as per a standard Net2 control unit.

The Easyprox now sends this data via its Net2Air bridge connection to the Net2 server software. If any updates need to be sent to the unit, including changes to the user data, these are now transmitted back. The unit will then go back to sleep again waiting for further activity.

After 1 hour of inactivity, the unit will send a heartbeat to the Net2 PC which responds with any updates, as above. This keeps the Easyprox updated even when there is no activity at the door. The 1 hour delay is mitigated by the vastly increased battery life in each unit and the fact that any user activity (card read or handle use) will also cause an immediate update to be made. It therefore follows that a new user may need to trigger an update before being given access through a door.

Some of the Net2 features (e.g. Fire alarm integration, Anti-passback, Lockdown) are not available on this product as wireless communication is not suitable for data critical applications.

During the 1 hour sleep period, any changes made at the PC will not be received. If an immediate update is required, the unit must be woken up by presenting a user card.

Where a door is held unlocked by software, it will still receive updates every hour. To force an immediate update, the unit must be removed from the door and reset. A card can then be presented to initiate the update request.

Easyprox reset

The Easyprox holds address information for the bridge that it is bound to. This will cause problems if the unit is to be used on another system.

The unit requires a hardware reset to clear its bridge information. This is achieved as follows:

1. Remove the unit from the door by removing the 4 mounting screws on the rear lock assembly.
2. Remove the access plate at the rear of the front lock assembly (top two standoff screws).
3. Locate the reset push button at the lower right corner of the circuit board.
4. Hold the button down and wake up the unit by briefly depressing the handle. The unit will give a single beep.
5. Push the reset button 4 more times and the unit will beep 5 times and display an AMBER LED.
6. Replace the access plate.
7. Enrol the unit - as above.
8. Refit the lock to the door with the 4 mounting screws.

Low battery warning

When the battery voltage falls below 4V, the user will see a delay between the card being read and access being granted. This delay provides a warning that the battery pack should be replaced.

The warning delay starts at 2 seconds, increasing up to 10 seconds as the battery discharges with use.

Battery replacement

1. Remove the unit from the door by removing the 4 securing screws on the rear lock assembly.
2. Remove the top two standoff screws - Fig 1.
3. Remove the access plate to reveal the battery pack. - Fig 2.
4. Unplug the lead and replace the pack with a new Paxton battery pack. - Fig 3.
(The unit will retain its settings and should not be manually reset).
5. Refit the access plate and secure.
6. Refit the unit to the door.

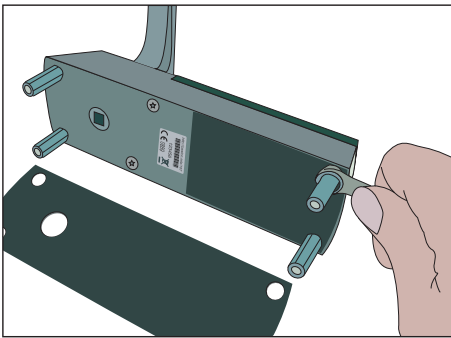


Fig 1

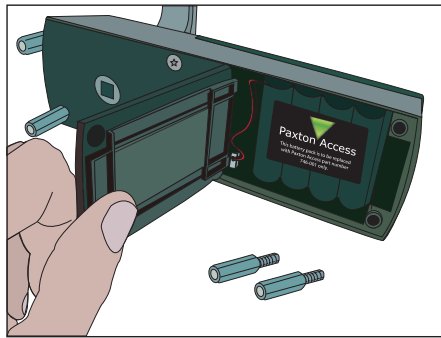


Fig 2

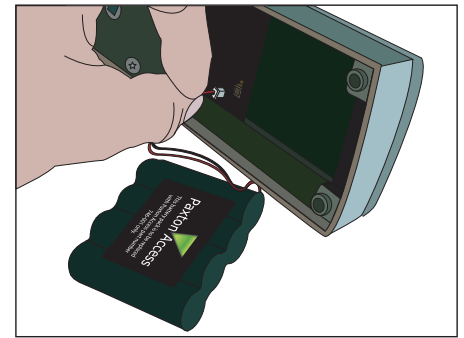


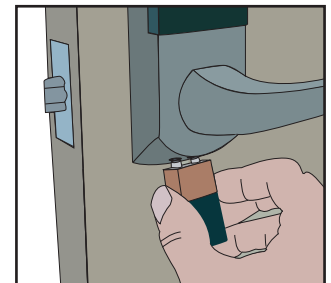
Fig 3

Recovery from a flat battery

Should the battery pack become discharged, the latch will no longer function. This could be in the locked or unlocked state.

Holding a PP3 9V battery up to the contacts on the bottom of the unit will allow the circuitry to operate normally.

A valid user card can then be used to open the door to access the batteries.



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Alarm Sounder

The alarm is activated when the door fails to re-lock itself. The alarm will sound for 60 seconds during which time the unit will try to lock the door once every 10 seconds. After 60 seconds the unit will then shut down. When the unit is woken up, it will immediately try to lock the door. If it fails, the alarm cycle will start again. Failure to relock will substantially reduce battery life.

Specifications			
Features	Min	Max	
Number of Cards		10,000	
Access levels		250	
Time zones		64	
Maximum door open time	1 sec	60 sec	
ACU's per Net2Air bridge - Recommended		10	
Net2Air bridge per system		200	
Net2Air wireless range		20 m	
Events stored in ACU with no server connection		3,584	
Read Range	Token	Keyfob	
	50 mm	30 mm	
Environment	Min	Max	
Operating temperature - Battery limits	0 °C	+ 55 °C	
Waterproof			No
Vandal resistance			Low
Battery type - High capacity (746-003)			Paxton Battery Pack
Voltage		6V DC	
Current		300 mA	
Typical battery life		30,000 operations	
Dimensions	Width	Height	Depth
Reader/Keypad module (required space on door)	60 mm	194 mm	30 mm
Total outside dimensions (includes handle clearance)	150 mm	194 mm	72 mm

CE0889 The declaration of conformity is available on request. Contact details are provided at: <http://paxton.info/596>

This product is not suitable for retail sale. All warranties are invalid if this product is not installed by a competent person.