keynetics
integrated access solutions

sentrikey®

SentriKey® System Manufactured by SentriLock LLC
LPCB Certificate Number:1096a

Installation Manual

Product items

- SentriKey® BLE WM Lockbox
- 4 x Heco Multi-Monti MMS-S 10 x 100 masonry bolts and washers
- 4 x M10 Flat washers
- Installation manual

Tools Needed

- Drill
- 8mm Masonry drill bit x 150mm long
- 16 mm socket (short/slim) 3/8" drive
- Socket ratchet wrench 3/8" drive
- 50mm (or longer) extension 3/8" drive
- Torx driver with T25 bit
- Small flat tip screw driver
- Marking template
- Marker pen
- Small dustpan or tape and plastic bag (to cacth brick dust whilst drilling)
- Polythene bags for collection of different coloured dusts
- Elastic band to suspend mechanism underneath the lid

Installation Manual

Before Starting

The SentriKey® Lockbox is designed to be mounted directly to a building or other secure structure. The Lockbox has been certified to Loss Prevention Standard ("LPS") 1175, Level 2 when mounted in brick and when including render of up to 20mm thickness, using the supplied Heco Multi-Monti MMS-S 10 x 100 masonry bolts and M10 flat washers. It is also possible to use the Heco Multi-Monti MMS-S 10 x 80 masonry bolts (with M10 flat washers) if mounting onto brick only substrate.

Mounting the lockbox using any other mounting bolts or onto weaker wall structures will invalidate the security rating.

It is important that the designated Installer undertakes training with Keynetics and follows this instruction manual for the installation to retain the awarded LPS certification. Should it be required to mount the lockboxes on other than a conventional masonry wall, please contact Keynetics to discuss suitability and the possible use of different specification mounting bolts.

This Installation Manual is a confidential document which is only issued to Keynetics trained and designated Installers. The purpose of this Manual is to act as a reference manual for trained installers. The document remains the property of Keynetics Ltd.

Preparation

Position of Installation

- It is recommended that the Lockbox be mounted in a position that makes attacks more difficult to reduce the leverage an attacker can impart on the lockbox.

Surface

- It is important that the mounting location is flat. If not, the pressure exerted by the bolts when tightened will twist the Lockbox frame and may render it inoperable. Do not attempt to mount the lockbox on any surface that is not flat.
- On rendered walls ensure the use of Heco Multi-Monti MMS-S 10 x 100 masonry bolts and washers as they will maintain the LPS1175 level 2 security rating.
- Contact Keynetics to discuss suitability and the possible use of different mounting bolts for non-standard masonry surfaces.

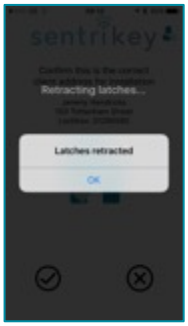
Drilling the Mounting Holes

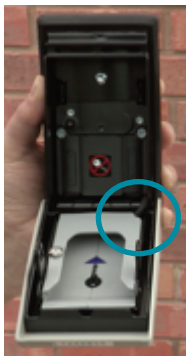
- Where possible, all bolts should fasten directly into the central part of a brick.
- It is important the mounting holes are not in the mortar between bricks.
- The drill holes must be at 90 degrees' angle to the wall and to the specified depth.
- Catch and save the dust from drilling to leave the area neat and tidy and to retain the dust for colouring filler used to refill holes after de-installation.

Installation App

- The SentriKey® App runs on Android, iPhone OS and smart phones. Verify that the mobile devices software is up to date before installing the app.
- The installer will require an App to be installed with the appropriate rights to access and dismantle the Lockbox. This will be arranged by the System Administrator. Ensure this is done prior to visiting the installation location(s).

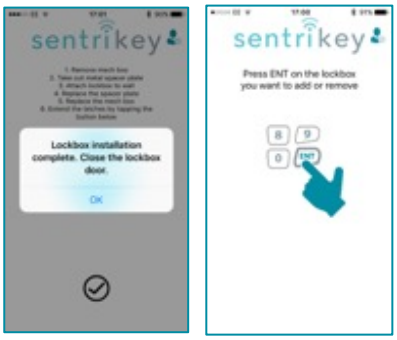
Instructions

Step	Instructions	Illustration
Verify client and address / location		
1.	Open Lockbox app on the mobile device.	
2.	Press ENT key on Lockbox that is to be installed App displays “Retrieving current location” App displays “Retrieving lockbox information”	
3.	Confirm this is the correct client and address for the lockbox installation. Press tick icon. App displays “Connecting to Lockbox”	
4.	App momentarily displays “Retracting Latches”. Listen for Lockbox mechanism operating. Then app displayed “Latches retracted” Press “Ok”. The Lockbox lid can now be opened	
5.	The screen shows the basic installation steps. Put the mobile device aside.	

Step	Instructions	Illustration
Open and disassemble Lockbox		
6.	a) Open the Lockbox. b) Carefully note the interconnect cable routing and position before proceeding. The cable must be routed in exactly this manner when reassembling the Lockbox later. c) Remove the light grey Key Tray and set aside for re-assembly.	
7.	a) Using a T25 Torx screw driver, remove the single center fastener bolt that retains the metal Security Plate and Latching Mechanism. b) Set aside for re-assembly.	
8.	a) Carefully remove the metal Security Plate. Use a flat blade screwdriver if necessary. b) Set aside for re-assembly.	
9.	WARNING Be extremely careful not to damage the interconnect cable or the latch mechanism. a) Carefully pry the Latch Mechanism out of the vault by lifting the bottom edge out first. Use a flat blade screwdriver if necessary. b) Protect the Latch Mechanism and lay on the keypad lid. c) It is possible to suspend the mechanism on the underside of the keypad by means of the elastic band. This can ensure it is kept out of the way whilst screwing the Lockbox to the wall	

Step	Instructions	Illustration
10.	a) Carefully remove the metal Spacer Plate. Use a flat blade screwdriver if necessary. b) Set aside for re-assembly.	
Marking and Drilling Holes		
11.	Mark the 4 mounting hole centres to be drilled onto the surface using the template. (The drill hole positions in the slots must be at the extreme top end of the slots, centred some 84mm from the bottom holes.) WARNING This is important, otherwise the socket used for installing the bolts will foul the casing.	
12.	Centre punch all four drill points to stop the drill wandering during the initial drilling. <u>WARNINGS</u> Ensure there are no electrical or data cables, gas or water pipes or other utilities behind the surface before drilling. Do not drill the holes through the Lockbox. Do not breathe in the dust created by drilling – it contains silica which can cause lung disease. Wear respiratory protection. a) Drill the holes with an 8mm masonry drill bit to 100 mm depth. The quality of the drilled hole is the critical factor. Ensure the holes are drilled perpendicular to the fixing plane and that they are sufficiently deep. a. If using the 80mm bolts, drill the holes to an 80mm depth b) Use the small dustpan to catch the dust from the drilling or tape a plastic back to the wall underneath where the holes will be drilled to catch the brick dust. c) Sweep brick dust into a polythene bag for use during deinstallation when filling holes and colouring filler.	

Step	Instructions	Illustration
Installing the Bolts		
13.	Use four bolts and washers, fix the Lockbox to the wall. a) Install the top two bolts first by sliding the box up in the slotted top holes to its highest position (to allow for easy access to the bolt heads). Screw them down to within one turn of being tight, but do not fully tighten at this stage.	
14.	b) Let the lockbox drop down in the top slotted holes now, and then install the bottom two bolts. Tighten them completely. c) Go back to the top bolts and tighten them completely, using the swivel flex drive if necessary. d) Check that all four bolts are tightened and firmly secure. WARNING: It is imperative when tightening the bolts that the process has not deformed or twisted the vault box. The installation surface must be flat.	
Reassemble Lockbox		
15.	Reverse the disassembly process. a) Re-insert the metal Space Plate, ensuring it sits flush and level. Ensure it does not sit on the bolt heads or washers, but covers them. b) Re-insert the Latch Mechanism (if necessary, by pushing the door latches in slightly to get them around the latch supports. Use a small flat blade screwdriver to push the latch in further, one side at a time.) c) Re-install the metal Security Plate and the single centre bolt that retains the mechanism box. Torque this fastener to 40.32 kg/cm (35 in/lbs).	

Step	Instructions	Illustration
16.	a) Carefully redress the interconnect cable into the original position. This step is critical as cable life can only be maintained if the cable is replaced in its original location and configuration. Ensure the protective braid has not slipped down the interconnect cable. There is a notch in the bottom of the latch mechanism and the key holder for the cable to locate in. b) Re-install the grey Key Holder into the lid.	
17.	Check the following: a) Door latches move freely; b) Cable is properly routed such that it will not be pinched, stretched or damaged when the Lockbox door is closed; c) Fastener bolt is tightened securely; d) Lockbox is not twisted WARNING: Do not close the Lockbox door until latches are extended using the mobile device app (and so proving they move freely.) Failure to do so may render the unit inoperable and require unit destruction!	
18.	a) Lift the lid of the Lockbox and press the ENT button to enable the Bluetooth connection between the Lockbox and mobile device. b) On the mobile device, Press tick box App displays message “Connecting to Lockbox” App displays message “Extending Latches” Listen to Lockbox mechanism operating.	
19.	a) Mobile device display confirms installation complete b) Close the Lockbox door c) Press the “OK” icon on the mobile device to complete the operation and return the Lockbox to normal standby mode.	

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