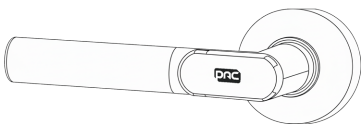
PAC Lock Solutions

Electronic Handles - Quick Start Guide

Jan 2026 v1.0



QR codes to download manuals at rear

Technical Support

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1.0 What's in the box?

PLHDL08L6674	 ×1	 ×1	 ×1
PLHDL08R6674	 ×1	 ×1	 ×1
PLHDL08D6674	 ×1	 ×1	 ×1

1:1 items shown are not to scale

COMELIT PAC

FEEL · SECURE

Health and Safety

The product is intended to be installed on building doors and for unlocking the doors. It is compatible with the commonly used European standards for locking systems. The product can be used for internal and external doors (depending on the product version). It can be installed in all the common doors such as wood, steel and aluminium doors as well as doors with narrow frames having a backset of more than 18 mm (depending on the product version).
The assembly should be carried out only by trained installation engineers. Only the components approved by COMELIT-PAC should be used for installation and maintenance. Any other use is considered as improper and may result in damage to material or even in physical injury.

This product should NOT be used in the following circumstances:

- To incarcerate people or animals.
- To secure required items for emergencies, e.g. defibrillator, emergency medication, fire extinguishers, etc.
- If the housing or electronics are damaged.
- For external installations (depending on product version).
- In doors that do not open freely or on doors or lock cases that are damaged.
- As a stopper against obstacles.

General safety instructions

Follow these basic safety instructions when using the door handle:

- Installation and battery replacement should only be performed by qualified technicians according to the instructions in this operating and assembly manual.
- Do not use the door handles in potentially explosive areas.
- Do not make any kind of modifications to the door handles, with the exception of those described in this operating and assembly manual.
- Do not apply paints or acids to the door handles.
- Do not heat the door handle and battery beyond the specified storage temperature.

Use only original spare parts, accessories and batteries from COMELIT-PAC.

RFID Devices

It is possible that interaction between your RFID credential and other devices in the vicinity may cause incorrect operation or recognition. Should you suspect that you have experienced such a problem, ensure the interfering device is out of range.

Lithium Batteries

Failure to read the following guidelines carefully may result in injury.

Danger of explosion if lithium batteries are incorrectly replaced or handled.

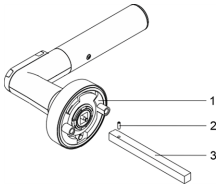
- Take steps to ensure that lithium batteries are never short circuited.
- Always store lithium batteries separately in non-conducting materials.
- Never replace a lithium battery with the incorrect type.
- https://www.gov.uk/guidance/consumer-products-recycling-batteries-and-electrical-waste
- Be compliant with your local / national lithium battery disposal laws.

Important Information

PAC Lock requires Access Central™ 5.6.15 or later and a valid PAC Lock Licence.

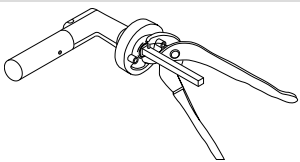
Batteries must be purchased from COMELIT-PAC. Non-compliant batteries will invalidate the warranty and may impair or damage the equipment.

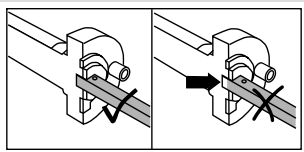
2.0 Pre-assembly Steps



1. Electronic door handle (outside)
2. Spindle clamping pin
3. Square spindle

The spindle (square pin) must be assembled before the installation of the electronic door handle (outside).

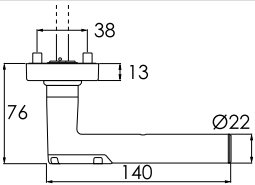




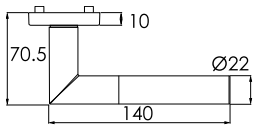
- Insert the spindle onto the retaining pin and into the square spindle holder.
- Insert the spiral clamping pin into the square spindle.

3.0 Dimensions

Electronic Handle (mm)

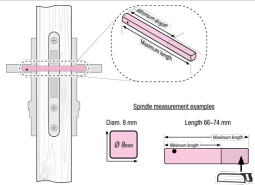


Mechanical Handle (mm)

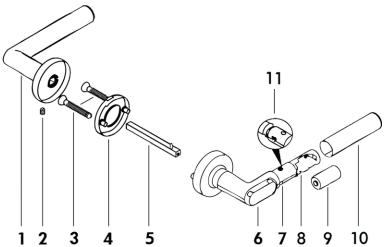


Spindle Measurements

Cut spindle from one end only

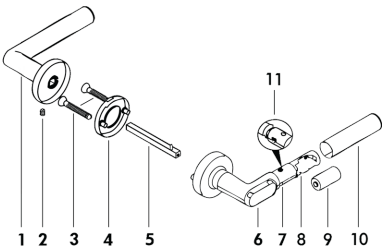


4.0 One-sided components



1 Mechanical door handle (inside)
2 Locking screw
3 Mounting screw
4 Opener holder (with bayonet lock)
5 Square spindle with spiral clamping
6 Reading unit
7 Electronic door handle (outside)
8 Battery compartment
9 Battery
10 Gripping sleeve
11 Grub screw for gripping sleeve

5.0 Two-sided components



1 Reading unit
2 Electronic door handle (outside)
3 Square spindle
4 Adapter sleeve (for Ø 7 mm square spindle)
5 Mounting screw
6 Rosette cover
7 Electronic door handle (inside)
8 Battery
9 Gripping sleeve
10 Grub screw for gripping sleeve

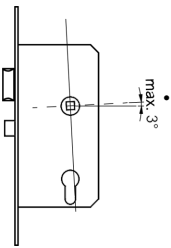
6.0 Installation

Only use the mounting screws supplied with the electronic door handle. Using mounting screws that are too long may damage the handle cover.

Tighten mounting screws to a maximum torque of 2 Nm.

Affix screws from the SECURE side of the door.

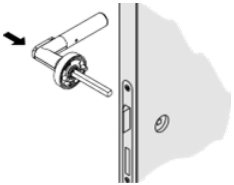
- Verify all compliance standards when installing a PAC Lock door handle.
- If a cylinder holder is present in the door, ensure it is sealed properly, e.g. using a dummy cylinder.
- Ensure that the latches or seals fitted to the door do not hinder the proper operation of the PAC Lock.
- Ensure that the door handle does not protrude and prevent the door from swinging freely.
- When installing a PAC Lock door handle in the circular and oval rosettes version, the hole in the door for inserting the handle spindle should have a diameter of at least 25 mm.
- When installing a PAC Lock door handle in the long plate version, the plate has to be fixed at least at four points distributed as evenly as possible over the length, such that the corresponding force can be applied on the plate.
- Before assembling the door handle, always check whether all the components can move freely.
- After installation, check the function with the door open.



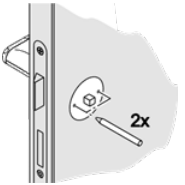
- The pre-tension in the mortice lock or the deviation of the horizontal basic position must not exceed 3°. • If the deviation is greater, the electronic door handle cannot engage and disengage.

Drilling Template
Please use the drilling template supplied.
For the **Circular Rosette** there should be a distance of at least 38 mm between the two drilling holes for the handle rosette and the key rosette.

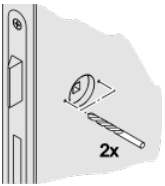
6.1 One-sided electronic authorisation assembly



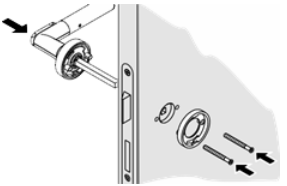
Insert the square spindle of the electronic door handle into the lock mechanism.



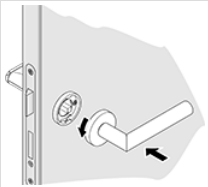
Place the drilling template on the square spindle, align horizontally and centre punch the hole markings.



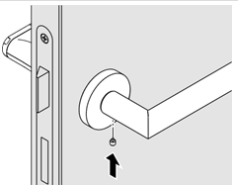
Remove the square spindle again and remove the lock case. • Drill holes of diameter 8 - 8.5 mm at the marked positions. • Do not drill into or through the lock casing.



Insert the square spindle of the electronic door handle lock mechanism again (with adapter sleeve supplied if necessary.) • Insert the holder of the mechanical door handle from the other side and screw it to the electronic door handle through the door, using the supplied mounting screws.



Insert the mechanical door handle keeping it in a horizontal position. For door handles pointing to the right, tighten the rosette towards the left, guide it over the handle holder and engage the bayonet lock. Accordingly, tighten the rosette towards the right for door handles pointing to the left.



Insert the locking screw from the bottom of the handle and tighten it.

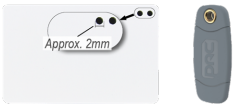
See Commissioning steps on page 7 to complete the hardware installation.

7.0 Commissioning steps

Check the door handle movement

1. Check the functionality and easy movement of the door handle with the door open.
2. The handle is already engaged when delivered. When engaged, the catch of the lock should be completely inside the lock casing when the latch is pressed down.
3. The electronic door handle will only operate with an inserted battery.
4. The first time an authorised card is presented only the two upper LEDs light up.

8.0 Add PAC Locks – PAC software

The following are required to configure a PAC Lock:	
• Windows 11 Professional or above / Windows Server 2019 or later. • Access Central™ v5.6.x or later installed with local windows administrator privileges. • PAC Lock Feature Pack licence(s) per 20 Offline Locks applied.	• A login to Access Central with Installer privileges. • At least one PAC Lock device is available for configuration. • A pack of OPS™ DESFire EV3C credentials (at least 3× required for configuration.)
	PAC Lock Solutions are only compatible with PAC OPS DESFire EV3C credentials. Refer to Access Central Help file for User and Card management details.
• A PAC Lock Updater. • PAC Lock configuration software (Clex SCT) installed on a Bluetooth® enabled device.	We recommend installing this software on the same Access Central client to make sharing XML configuration files easier during initial set up.

8.1 Generate PAC Lock Settings

1. **Connect the PAC Lock Updater via the supplied USB cable.**
2. Login to Access Central with **Installer rights**.
3. Select **Hardware** from the Navigator window on the left-hand side.
4. Select **Offline Hardware** tab, click **Settings** then click **Generate New**.
5. Copy the values for both **Application ID** and **Application Key**.

You must create Installation Key 0 before opening Clex SCT to add these values to the database.

6. Click **OK** to close the window and click **OK** to close the pop-up.

8.2 Create Admin Cards

1. Navigate to **Offline Hardware** in Access Central.
2. Click **Settings** then click **Generate Installation Key** and present the credential to the PAC Lock Updater when prompted.
3. When complete a pop-up and a solid green LED on the Updater will confirm completion.

8.3 Add PAC Locks in Access Central

All Offline Doors will share the same configuration per Access Central Organisational Unit.

1. Navigate to **Offline Hardware** in Access Central.
2. Click **New > Offline Door** and fill in the required details then click **Save**.
   Repeat for each Offline Door required.
3. Select the appropriate Offline Door and click **New > PAC Lock**.
4. Fill in the required details and click **Save**. Repeat to add additional PAC Locks.

8.4 Download config file from Access Central

New Offline Locks must be uploaded into Clex SCT to update the database.

1. Navigate to **Offline Hardware** in Access Central and click **Settings**.
2. Click **Download Full Config** and click **OK** to close the pop-up and continue.
3. Browse to a folder that is accessible from Clex SCT and click **Save**.
   We recommend using a meaningful filename to help you identify for future use e.g. <OrgUnit>_fullconfig.
4. Click **OK** to close the confirmation pop-up and click **OK** to apply changes.
5. Click **OK** to close the pop-up and return to the Access Central **Offline Hardware** window.

9.0 Create PAC Lock database

1. Open Clex SCT, click **Menu** then select **Create New Database**.
2. Ignore any status message relating to COM PORT connection (bottom of screen) – we are using BLE Device communications.
3. Present the Installation Card to one of the PAC Lock devices.
   3.1 A beep will signal the card has been read.
   3.2 The blue LEDs will flash twice slowly, then rapidly for a few seconds.
   3.3 A final beep will signal the process is complete and the main screen has a white background.
4. Click **Apps** then click **Settings**.
5. In the Communication section, ensure "**Always Transfer RFID-Segment**" is ticked.

9.1 Create a Site

Every Access Central Organisational Unit must have a corresponding Clex SCT "Site."
Clex SCT will use the Site ID generated in the section Generate PAC Lock Settings.

1. Click **Sites**, click **Menu** click **Add New Site**.
2. Click on the **Name** value for the appropriate row and edit with your required **Name**.
3. Click in the **RFID settings** column, next to the required site.
4. The Application ID and Application Key must match in both Clex SCT and Access Central.
5. Edit **AID** in Mifare DESFire setting:

5.1 Click the value to the right of **AID** and replace the value between "**0x**" and " //" with the copied App ID from *Generate PAC Lock Settings*. E.g. "0x**X99999** //".

5.2 Please ensure there is a space before " //".

6. Edit **DESFIRE Key** in Mifare Key(s) setting:
7. Click the value to the right of **DESFire Key** and overwrite the value after "0x".
8. Click **Save Site** to save changes and return to the main menu screen.

9.2 Load Config to PAC Lock configuration software

1. Click **XML Interface**, click **Menu** then click **Load XML File**.
2. Browse to your XML file location and open the appropriate XML file.
3. Click **Apps** to return to main menu then click **Clex Lock Units.**
4. Click on the Door Name value of the required PAC Lock device to select it.
5. Present the **Installation Key** to the appropriate PAC Lock device.
6. A single beep with a blue LED confirms the PAC Lock device is in config mode and the blue LEDs will flash slowly during this period.

After 20 seconds of inactivity the Updater will exit config mode.

7. Click **Transfer Settings** to transfer the settings to the PAC Lock device. A pop-up message will confirm the process has started.
8. Click **OK** to continue and the PAC Lock blue LEDs will flash rapidly during this process.
9. When all items on the Clex SCT progress window display a tick click OK. The PAC Lock device will beep once, and the PAC Lock serial number will be populated for the updated device.
10. **Optional: Repeat from step 4 to update additional PAC Lock devices.**

9.3 Save Config Result File

1. Click **Apps** then click **XML Interface.**
2. Click **Menu** then click **Save XML File** (top option) to save the XML configuration results file. Browse and click on the appropriate results file.
3. Click **Save** and click **OK** to close the pop-up, then click to exit Clex SCT.

10.0 Upload Config Result into Access Central

1. Navigate to **Offline Hardware** in Access Central.
2. Click **Settings** to display the Offline Lock Settings window.
3. Click **Upload Config Result** and click **OK** to close the pop-up.
4. Browse to the appropriate "Results-…" file and click **Open**.
5. Click OK to close the update message and click **OK** to close Offline Lock Settings window.

6. Click **OK** to close the pop-up window.
7. When complete, the PAC Lock icon will reflect the operational status.

 An unconfigured Lock awaiting updates	 A fully configured Lock

You are ready to add cards to Cardholders in Access Central.

11.0 Handle Operation

The electronic door handle operates only the latch.

To open the door with an authorised credential, the locking cylinder must be unlocked AND the door must not be secured by any other means.

Automatic 'wake up'

The PAC Lock Handle will reside in a 'sleep mode' when not in use.
Under standard operating conditions the PAC Lock will 'wake up' automatically when a credential is presented for authorisation.

Automatic wake up can be affected by environmental interference.

If the PAC Lock Handle reader is 'woken up' 24 times without reading a credential e.g. by metallic objects in the surroundings, automatic wake up **is disabled** and must be woken up manually.

1. Press the door handle a few times until the LED glows.
2. Present an authorised credential to re-enable automatic wakeup.

Unlocking / Locking process

The door handle must be in the horizontal position

1. Present a credential to the reader until the green LED glows.
2. The door handle is engaged (activated) and can be used to open the door.
3. The door handle engagement time duration is configurable from 1–15 seconds.

When the door engagement time duration elapses the door handle will disengage, even if it is still being held down.

4. Once the door handle is released it is disengaged and will not operate the lock until an authorised credential is presented again.]

Maintenance

Clean the door handle with a slightly damp cloth using only commercially available household cleaners.

Do not use any abrasive or caustic cleaning agents.

LED & Audio Signals

Audible signal	Visual signal	LED
Short beep	Solid LED	Green
Long beep	Flashing LED	Red

Rest mode	n/a
Begin service mode	[Long beep then a short beep & green LEDs flash]
End service mode	[Short beep then a long beep]
Key added	[2× short beeps & green LEDs glow]
Key deleted	[2× long beeps & red LEDs glow]
Read mode (after waking)	[Red LEDs flashing]
Key not authorised	[Long low beep & red LEDs glow]
Key authorised	[Green LEDs glow]
Toggling – ON	[Long loud beep & green LEDs glow]
Toggling – OFF	[Long loud beep & red LEDs glow]
Reset	[Long low beep & LEDs glow in succession]
Battery warning 1: Low power	[5× short beeps & red LEDs flash ×5]
Battery warning 2: Replace soon	, ...5 sec delay & [5× short beeps, red LEDs flash ×5, 5 second lock engagement delay and green LEDs flash]
Battery warning 3: Replace now	[5× short loud beeps, red LEDs flash ×5, **NO** lock engagement but battery replacement now possible]

12.0 Battery Notifications

Audio and visual signals are provided to alert the user to reduced battery power during the **final 1,000 operations** of the battery.

Batteries must be purchased from COMELIT-PAC. Any use of non-compliant batteries will invalidate the warranty and may impair or damage the equipment.

Reordering information for batteries: **CR123A Lithium 3V PLHDLB02**

No Power Supply

The access data, events log, settings of the door handle and the time are stored on non-volatile memory and are retained even when there is no power supply, e.g. when changing the battery or if the battery discharges completely.
The time is written to the non-volatile memory once every 30 minutes. If the power supply remains off, the clock comes to a standstill after a few seconds and starts running from the last stored value onwards after the power supply is restored.

After any power interruption check the time and set it if necessary.

Alert Type	Audio / Visual Signal	Trigger Action
1) Low Power	• 5 × beeps • 5 × flashing red LED	Access is authorised and door unlocks
2) Replace Battery Warning	• 5 × beeps • 5 × flashing red LED • 5 second delay to door operation & flashing green LEDs	Access is authorised and door unlocks

Technical Data

Radio frequency	2.4 GHz BLE
Transmission power	4mW
RFID frequency	13.56 MHz
RFID field strength	According to EN 300 330
Batteries	Type CR123A Lithium 3V

13.0 Troubleshooting

Hardware solutions

Door handle does not come to rest position

The door handle should automatically return to a natural horizontal position.

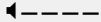
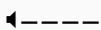
- Check that the lock is aligned properly.
- Increase the hole diameter for mounting the door handle from 8 to 8.5 mm.
- Remount the door handle and verify standard operation as expected.

Door does not open even though the motor is running

When an authorised credential is presented to a door handle reader a quiet motor will be audible as the door handle is engaged to unlock the cylinder.

- Check the position of both the door handles with respect to the lock casing when in resting position.
- Both the door handles have to be at 90° ± 1° with respect to the lock casing.

Fault Audio Signals

Memory fault / configuration fault		[5× long beeps then 1× short beep]
Coupling error		[5× long beeps then 2× short beeps]
RTC fault (clock)		[5× long beeps then 3× short beeps]
Internal error (unhandled interrupt)		[5× long beeps then 4× short beeps]
Internal error (bus conflict)		[5× long beeps then 5× short beeps]
Internal error (bus conflict)		[5× long beeps then 6× short beeps]
Internal error (bus conflict)		[5× long beeps then 7× short beeps]

Software solutions

Security card (credential) is not working

- Ensure PAC OPS DESFire EV3C credentials are being used.
- Check card has been added to Cardholder.
- Check card has been encoded for Offline use.
- Check Offline Access Groups are set up.

PAC Lock Updater has a red LED

- Disconnect and reconnect connector, and try again.
- Verify correct card is being encoded.

Security card (credential) is not working

- Ensure PAC OPS DESFire EV3C credentials are in use.

QR codes for manuals

	LEFT Electronic Handle PLHDL08L6674
	RIGHT Electronic Handle PLHDL08R6674
	DUAL Electronic Handle PLHDL08D6674

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