i-PAL

COOPER B-Line

Stand Alone Integrated Proximity Access Locking Handle

Product Features

- High security low current electronic locking solution for internal cabinets.
- Integrated proximity SMART card reader.
- Integrated handle position sensor together with diagnostic LED's & buzzer.
- Low power consumption 55ma.
- Emergency manual override.
- Each handle can be programmed with up to 500 user cards.
- Simple and easy to set up and administer.

Emergency Handle Release

Handle Status Front LED

i-PAL Handle Status Guide

LED Position	LED	Activity	Audio	Status
Front / Lower Rear	Green	Green Flashing	No	Unit un-programmed factory default setting
Upper Rear	Blue	Blue Steady		
Front / Lower Rear	Green	Green Flashing	Yes	Programme mode
Upper Rear	Blue	Blue Flashing		
Front / Lower Rear	Red	Red Steady	No	Handle locked – at least one card has been validated
Upper Rear	Blue	Blue Steady		

Each i-PAL kit comes complete with one IPALCARD set comprising of seven cards.

Program Card
Badge de Programmation
Programeerkaart
Programmier Karte
Tessera di Programmazione

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X 1

Programme Card
When presented to the i-PAL handle the "Programme Card" opens the system up to allow "User Cards" to be added or deleted to that particular handle.

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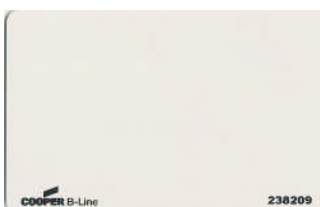
X 3

User Cards
Once programmed in to an i-PAL handle the individually electronic signatured "User Cards" provide the user with the facility to unlock the associated i-PAL handle simply by presenting the "User Card" in front of the i-PAL handle.

Delete Card

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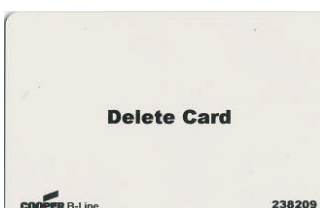
X 3

User Delete Cards
The "User Delete Cards" allow previously allocated "User Cards" to be deleted from each individual i-PAL handle. Again each "User Delete Card" is individually serialised and electronic signatured to match up with the corresponding "User Card".
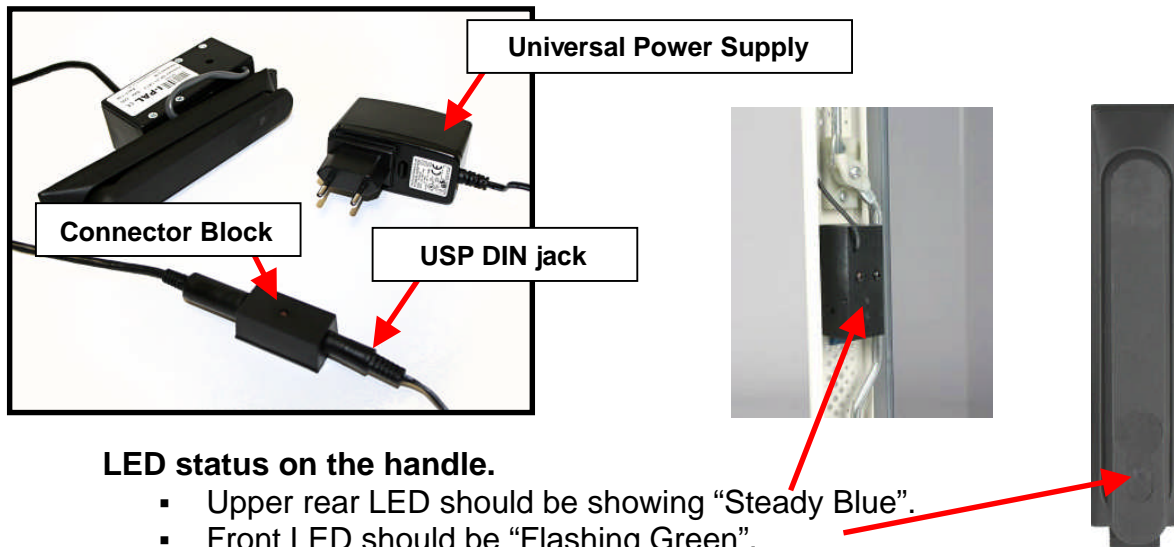
Programme Procedure

Make sure the handle is powered up.

- **Universal Power Supply** should be plugged in to the mains supply.
- **i-PAL** handle should be mounted into the door.
- Power supply and handle connection should be made through **Connecting Block** as shown below.

Universal Power Supply

Connector Block

USP DIN jack

LED status on the handle.
- Upper rear LED should be showing "Steady Blue".
- Front LED should be "Flashing Green".

To Set Up Or Add User Cards

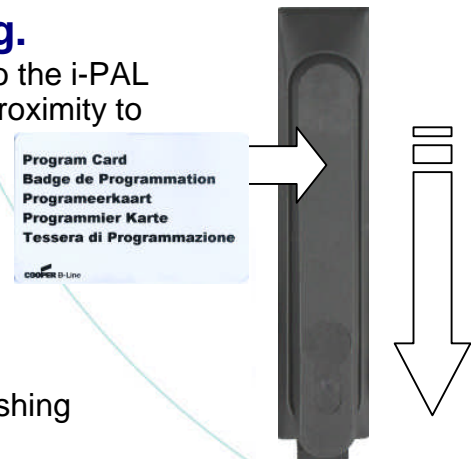**Add User Cards
Step 1**

Open the handle for programming.
- Simply present the "Programme Card" to the i-PAL handle and swipe downwards in close proximity to the handle.
- When the card is recognised the handle will begin to emit and audible "beep" indicating that the handle is open for programming.

LED status on the handle.
- Front LED should be "Flashing Green".
- Upper rear LED should be showing "Flashing Blue".

Notes

a. *At this point only this "Programme Card" can open the handle up for the addition or deletion of "User Cards". Other "Programme Cards" can however be added, see **Add Programme Cards - Steps 1 – 3**.*

b. *The i-PAL handle automatically reverts to "Normal Mode" if no card is presented within 10 seconds.*

c. *The i-PAL handle remains unlatched until a "User Card" is programmed into the handle.*

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Programme Procedure
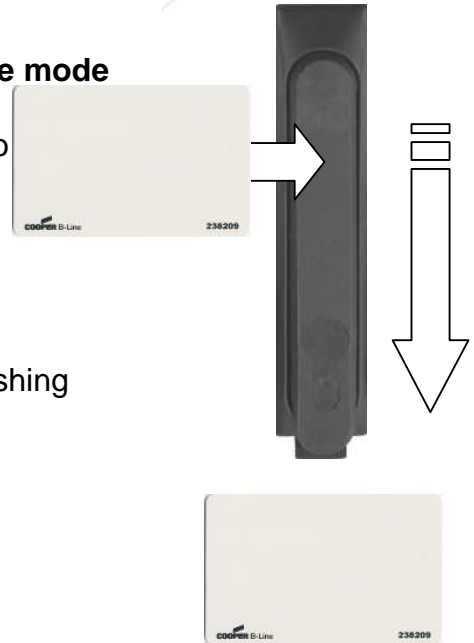
To Set Up Or Add User Cards (con't)

Add "User Cards".

Add User Cards Step 2

- With the i-PAL handle still in **programme mode** (still emitting an audible "beep") present the chosen "User Cards" one at a time to the handle.
- Each time the "User Card" is accepted an additional audible "beep" is emitted.

LED status on the handle.

- Front LED should be "Flashing Green".
- Upper rear LED should be showing "Flashing Blue".

Close the handle programme function.
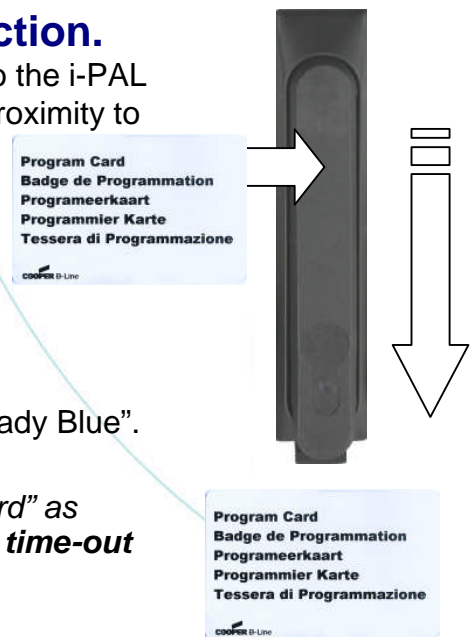
Add User Cards Step 3

- Simply present the "Programme Card" to the i-PAL handle and swipe downwards in close proximity to the handle.
- Again an audible "beep" will be sounded and the handle will cease "beeping" indicating that the handle is now in **normal mode**.

LED status on the handle.

- Front LED should be "Steady Green".
- Upper rear LED should be showing "Steady Blue".

Notes

a. Rather than present the "Programme Card" as indicated above the handle can be left to **time-out** of **programme mode**.

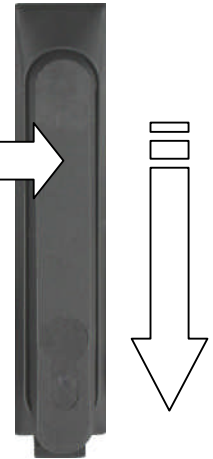# Programme Procedure

To Delete User Cards

Delete User Cards Step 1

Open the handle for programming.
- Simply present the "Programme Card" to the i-PAL handle and swipe downwards in close proximity to the handle.
- When the card is recognised the handle will begin to emit and audible "beep" indicating that the handle is open for programming.

LED status on the handle.
- Front LED should be "Flashing Green".
- Upper rear LED should be showing "Flashing Blue".

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Delete User Cards Step 2

Delete "User Cards".
- With the i-PAL handle in **programme mode** (emitting an audible "beep") present the chosen "User Delete Cards" one at a time to the handle.
- Each time the "User Delete Card" registers an additional audible "beep" is emitted.
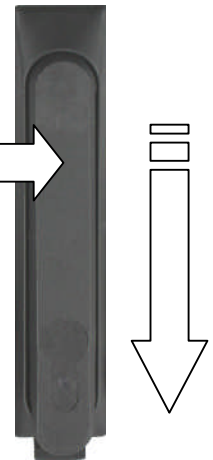
LED status on the handle.
- Front LED should be "Flashing Green".
- Upper rear LED should be showing "Flashing Blue".

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Delete Card
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Kalkenstraat 91-93 B-8800 Roeselare (Roulers) - Belgium
Tel. +32(0)51/25.06.10 Fax +32(0)51/24.02.57
Email: edp@eldeco.be website: www.rack19.be or www.eldeco.be or www.eldeco-edp.eu

To Delete User Cards (con't)

Delete User Cards

Step 3

Close the handle programme function.
- Simply present the "Programme Card" to the i-PAL handle and swipe downwards in close proximity to the handle.
- Again an audible "beep" will be sounded and the handle will cease "beeping" indicating that the handle is now in **normal mode**.
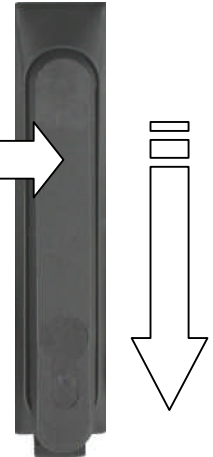
LED status on the handle.
- Front LED should be "Steady Green".
- Upper rear LED should be showing "Steady Blue".

Notes
a. Rather than present the "Programme Card" as indicated above the handle can be left to **time-out** of **programme mode**.

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To Add Additional Programme Cards
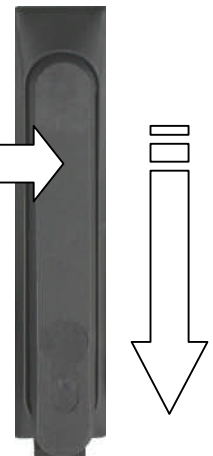
Add Programme Cards

Step 1

Open the handle for programming.
- Simply present the "Programme Card" to the i-PAL handle and swipe downwards in close proximity to the handle.
- When the card is recognised the handle will begin to emit and audible "beep" indicating that the handle is open for programming.

LED status on the handle.
- Front LED should be "Flashing Green".
- Upper rear LED should be showing "Flashing Blue".

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To Add Additional Programme Cards (con't)

Add Programme Cards
Step 2

Add Additional "Programme Cards".

- With the i-PAL handle in **programme mode** (emitting an audible "beep") present the additional "Programme Cards" one at a time to the handle.
- Each time the "Programme Card" registers an additional audible "beep" is emitted.

LED status on the handle.
- Front LED should be "Flashing Green".
- Upper rear LED should be showing "Flashing Blue".

Notes
Once an additional "Programme Card" has been added to the i-PAL handle it can be used on it's own to open the handle into **programme mode**.

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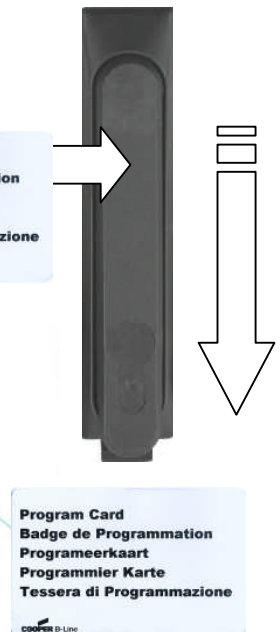**Add Programme Cards**
Step 3

Close the handle programme function.

- Simply present the "Programme Card" to the i-PAL handle and swipe downwards in close proximity to the handle.
- Again an audible "beep" will be sounded and the handle will cease "beeping" indicating that the handle is now in **normal mode**.

LED status on the handle.
- Front LED should be "Steady Green".
- Upper rear LED should be showing "Steady Blue".

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Programme Procedure

"Quick Clear" User Cards from the i-PAL Memory

"Quick Clear" all user cards.

- Simply present an associated "Programme Card" to the i-PAL handle three times in quick succession.
- Each time the card is presented the i-PAL handle will emit and audible "beep".
- By carrying out this process the i-PAL is cleared of ALL previously programmed "User Cards".

LED status on the handle at the end of the process.

- Front LED should be "Flashing Green".
- Upper rear LED should be showing "Flashing Blue".

Notes

Once completed new "User Cards" can be added by following Steps 1 – 3 as described in "Add User Cards".

Program Card
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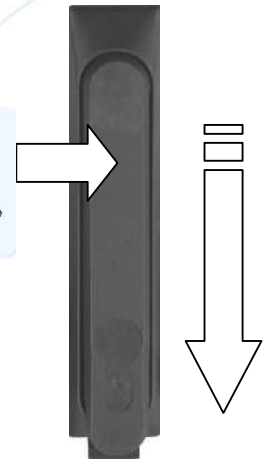
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Program Card
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i-PAL Handle Factory Reset

The i-PAL handle can be reset to factory condition by following the following process.

a. With power on the **Universal Power Supply (USP)** unplug the **Universal Power Supply** DIN jack from the **Connector Block**.

b. Depress and hold the **Reset Button** on the **Connector** and reconnect the DIN jack from the **Universal Power**

c. Release the **Reset Button**.

d. Unplug the **Universal Power Supply** DIN jack once again and wait 10 seconds before reconnecting it.

Reset Button

Universal Power Supply

Connector Block

USP DIN jack
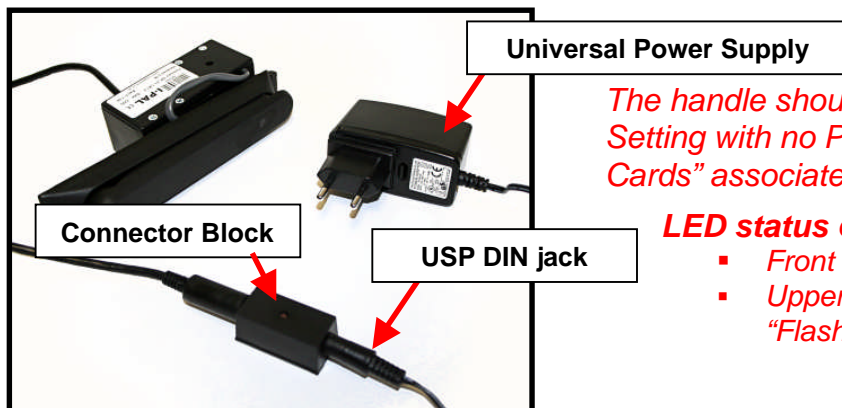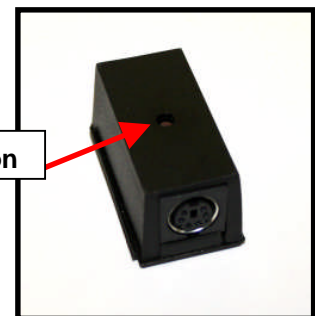
The handle should now be reset to Factory Setting with no Programme Cards" or "User Cards" associated to the handle.

LED status on the handle.

- *Front LED should be "Flashing Green".*
- *Upper rear LED should be showing "Flashing Blue".*