FUYL TOWER

FUYL TOWER INSTRUCTIONS - HARDWARE

Overview

The FUYL Tower is an intelligent asset management system with a central electronic access control panel that can store, charge and secure mobile devices.

The Tower has individually secured bays. Each charging bay features a mains voltage power outlet (110V / 240V locale dependant), with in-built circuit protection and a 5V USB charging port capable of 2.4A charge current.

Users of the system provide a 4-digit PIN code or a compatible RFID card to lock and unlock the charging bays. Access breaches are detected by the system and will trigger a warnings/alerts for administrators.

The central electronic control panel features *admin keypad override* using an administrator RFID card or an 8-digit PIN.

Using a wired or wireless local network, administrators can connect remotely to the FUYL Tower control panel to access the *FUYL Tower management portal* for more advanced administrator settings and features.

Specifications

Name:

FUYL Tower 15 Intelligent Asset Management System

FUYL Tower 5 Intelligent Asset Management System

Input: 110VAC nom, 60Hz, 15A max (US version)

240VAC nom, 50Hz, 10A max (non-US version)

Output:

5VDC @ 2.4A max x 15 outlets (FUYL Tower 15)

5VDC @ 2.4A max x 5 outlets (FUYL Tower 5)

110VAC or 240VAC at 4A max per outlet

(depending in mains input voltage)

Dimensions:

FUYL Tower 15: 1696 x 523 x 478 mm | 67 x 21 x 19 in

Weight: 88kg | 194lbs

FUYL Tower 5: 593 x 528 x 480 mm | 23 x 21 x 19 in

Weight: 35kg | 77lbs

Operating Temperature: 0C - 50C (32F - 122F) ambient

Disclaimer

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SAFETY INSTRUCTIONS

For your safety – Do not operate the unit if the plug, power socket or power cable is damaged.

To reduce the risk of fire, electrical shock and/or injury, the following basic precautions should be followed:

- This device is not intended for use by persons (including children) with reduced physical, sensory and mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instructions concerning the use of the device by a person responsible for their safety.

- CAUTION: To reduce the Risk of Electric Shock – use only indoors.

- Keep away from all sources of water or moisture. Never expose the devices to the rain or dangerous gas.

- Parts of the unit, including devices charging within the unit, may be warm during operation. Install the unit in a dry and cool place and do not cover ventilation holes. Ensure sufficient ventilation at all times.

- Do not overload the socket-outlets.

- Before using the product, check and make sure all devices are correctly and properly connected.

- Arrange the power cord away from traffic areas where it will not be tripped over.

- The unit is powered when the main supply is connected and switched on.

- Do not try to repair, disassemble or modify the unit. There are no user-serviceable parts inside.

- Do not use the product other than for its intended use.

INSTALLATION

1) CAUTION: The FUYL Tower 15 is heavy (88Kg or 194lbs). The FUYL Tower 5 is 35kg or 77lbs. Take appropriate lifting precautions while moving.

2) With the delivery carton lying horizontal on the FUYL Tower 15 (FUYL Tower 5 is packaged on it's back), unpack the carton and free the FUYL Tower from the packaging.

3) Remove the parts box and any additional packaging that is present.

4) The FUYL Tower 15 has four adjustable feet. Locate them in one of the parts boxes and screw them into the corner brackets at the base of the cabinet. FUYL Tower 5 has it's feet pre-installed.

5) Manoeuvre the FUYL Tower into an upright position by raising it out of the carton. Use lifting apparatus if necessary for safe lifting. Please discard the packaging with thought for the environment.

6) When choosing a location for the FUYL Tower, consider the following:

   a) The LCD display will be more readable when ambient light levels are lower.

   b) Direct sunlight should be avoided in hot climates, as temperatures within the unit could exceed operating temperatures of stored devices.

   c) Choosing public, well trafficked areas will contribute to the safety of users and reduce the likelihood of successful break-in.

   d) The main power lead for the FUYL Tower should be connected in a location that is concealed, to avoid accidental or deliberate power down of the unit while devices are charging.

7) The FUYL Tower will require either a single mains socket or a permanent electrical junction box, preferably directly behind or above the Tower. Any necessary electrical installation should be done by suitably qualified installers before the cabinet is moved into place.

8) If network connectivity will be required, then a LAN port or cable must be provided in an appropriate location close to the cabinet. A suitable LAN cable can then be plugged into the ethernet connector on the rear of the cabinet.

9) The mains supply cable should be fitted to the cabinet before it is moved into the final position. Plug the cable into the mains socket on the rear of the cabinet.

10) Position the FUYL Tower 15 into installation location, 40-90mm from the wall, and level/stabilise the Tower by adjusting the feet at the base. Fix to the wall using the supplied mounting bracket on top of the unit. Fixing to the wall is important for stability of the unit and safe operation.
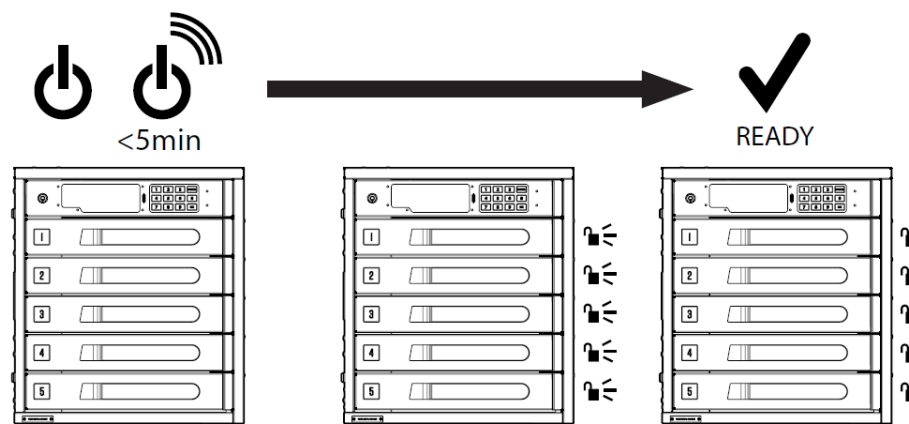
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SETUP

Switch on power to the locker. The controller will take approximately 5 minutes to initialise and boot, and then all fifteen locker doors will turn green (or red if a door is open) indicating they are ready for use. The default FUYL Tower usage mode is "**User Specified PIN Mode**" (USP).
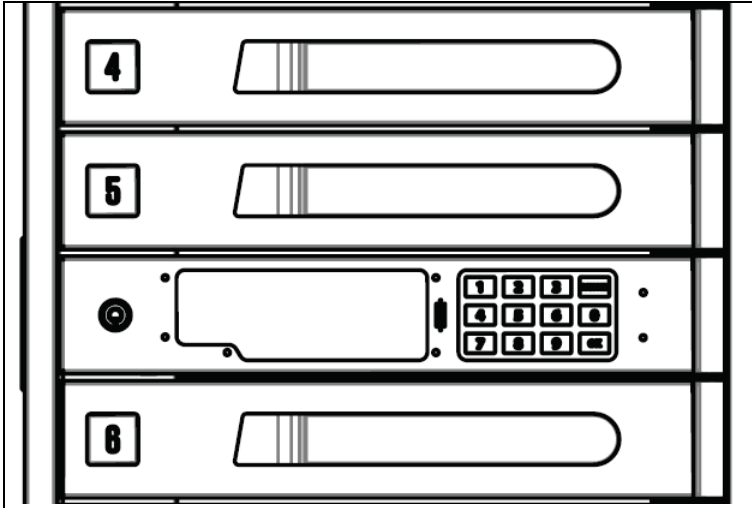

OR
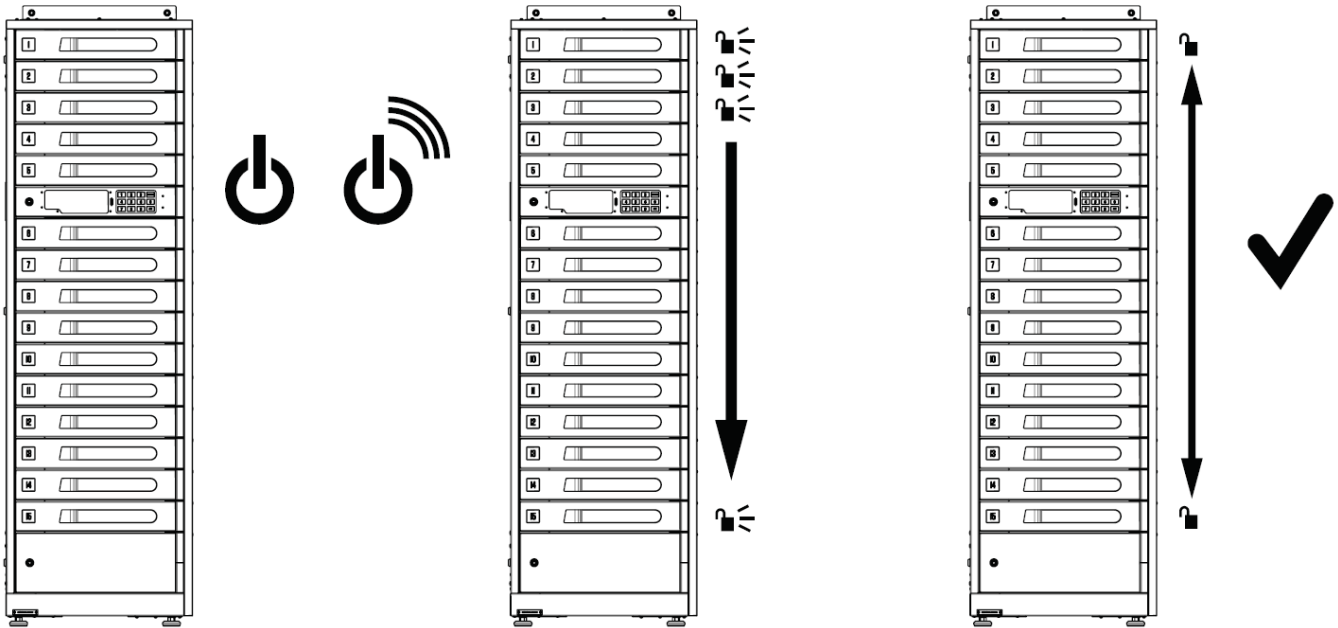
GENERAL USE

USER SPECIFIED PIN (USP) MODE – STORING AND RETREIVING A LOCKERS CONTENTS

Follow the steps below for reserving a compartment in USP on the Tower.

1. Selects a locker that is open (red light*) and place your device inside the compartment. Plug your device to the outlet or the USB port, depending on the device. Note: charging cables are not supplied with the FUYL Tower.

2. Enter a locker number on the keypad.

3. Press OK to proceed to the PIN/RFID entry screen.

4. Using the keypad, enter a 4-digit PIN of your choice or tap an RFID card.

If using a 4-digit PIN, confirm the PIN.

5. Firmly press the door closed.

Notice that the number LED/light has changed colour* and the internal light has turned off.

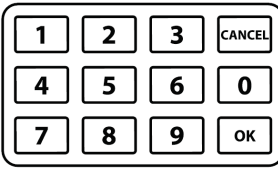The LCD screen will display the instructions at every step.

Retrieving your device:

For the user to retrieve their reserved lockers contents they enter the locker number and either swipe their RFID card or enter the PIN they used to secure the locker. Leave the door open and the locker empty ready for the next user

*NOTE: light colours used in software version R1.0.1. Later software version may use different colours to signify 'available compartment' or 'reserved compartment'.
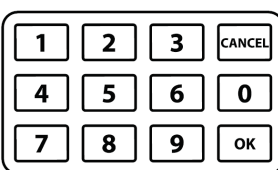
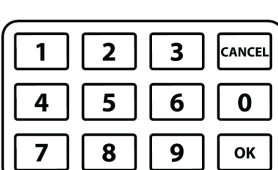Using the keypad, enter a door number to unlock or lock

To reserve door 5, enter a 4-digit PIN or scan your RFID device.
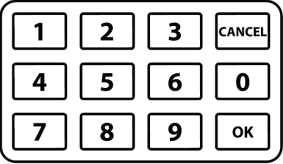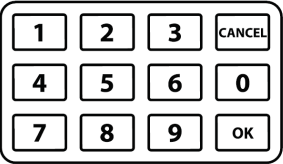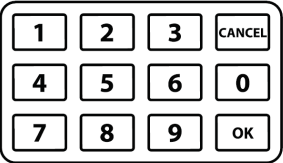
Confirm 4-digit PIN to reserve door 5

ADMIN SPECIFIED PIN (ASP) MODE – ACCESSING THE PRE-PROVISIONED CONTENTS OF A LOCKER
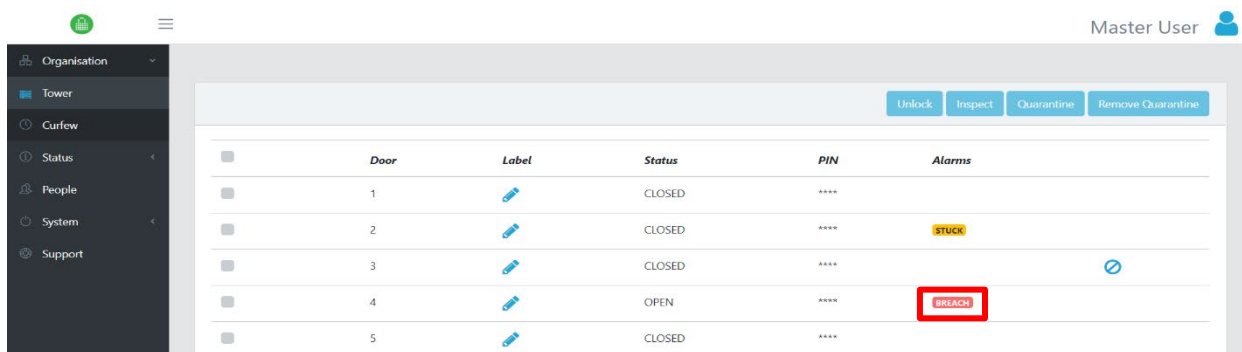
Using the keypad, enter a door number to unlock `1 2 3 CANCEL` `4 5 6 0` `7 8 9 OK`	In the ASP Mode, the user has been given a compartment number along with the PIN or RFID access card.
To unlock door 5, enter your 4-digit PIN or scan your RFID device. `1 2 3 CANCEL` `4 5 6 0` `7 8 9 OK`	• From the keypad, enter the door number. • Press OK to confirm the compartment selection • Then enter your pre-assigned PIN or tap the pre-registered RFID card • NOTE: The screen will instruct the user at every point. At this point the door will open.
Unlocking door 2. Please retrieve your items, then close the door firmly. `1 2 3 CANCEL` `4 5 6 0` `7 8 9 OK`	Collect or return the device(s) stored in the compartment. Close the locker when finished.

UNUSUAL CIRCUMSTANCES

LOCKER BREACH

If the FUYL Tower detects that a locker door was opened without the PIN code being entered (i.e. with a forced entry) an alarm flag will be raised in the management portal.

The FUYL Tower will still be operational so that other users can retrieve their items.

> The locker breach alarm can be reset by using the admin RFID card to enter the **admin keypad override mode (or via the portal)**. Refer to the Administration section for instructions.

LOCKER STUCK

Occasionally, a door might be held closed or obstructed so that it can't open. The system will try multiple times to open the door. After a point, the locker will be flagged as 'stuck' and the system will ignore attempts to use that locker.

The administrator can attempt to free the locker, and can try to unlock the locker again by entering the **admin keypad override mode**. Refer to the section entitled Administration for details.

TOO MANY PIN ATTEMPTS

When attempting to unlock a locker, the user will be given 3 pin entry attempts. If 3 incorrect attempts are made, that locker will be disabled for 60 seconds before another entry attempt can be made.

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ADMINISTRATION

At times, an administrator may need to perform maintenance on the system or respond to events such as:

1) User forgets PIN

2) Locker breach alarm is triggered

3) Lockers need to be emptied or cleaned out.

The primary way for the administrator to perform these functions is using the ***admin keypad override mode.***

> Note: If power has failed to the FUYL Tower, and the doors need to be opened, refer to the next section: MANUAL DOOR OVERRIDE

ADMIN OVERRIDE MODE – AUTHENTICATING

To enter the Administration menu, select door "00" and press OK.

Enter the administrator PIN valid (8-digit) or a valid RFID card (this needs to be registered first).

NOTE: the default administrator PIN is 31082018.

))))	Using the keypad, enter a door number to unlock or lock 00			1	2	3	CANCEL
				4	5	6	0
				7	8	9	OK

))))	Using the keypad, enter your 8-digit PIN or present your RFID device. ********			1	2	3	CANCEL
				4	5	6	0
				7	8	9	OK
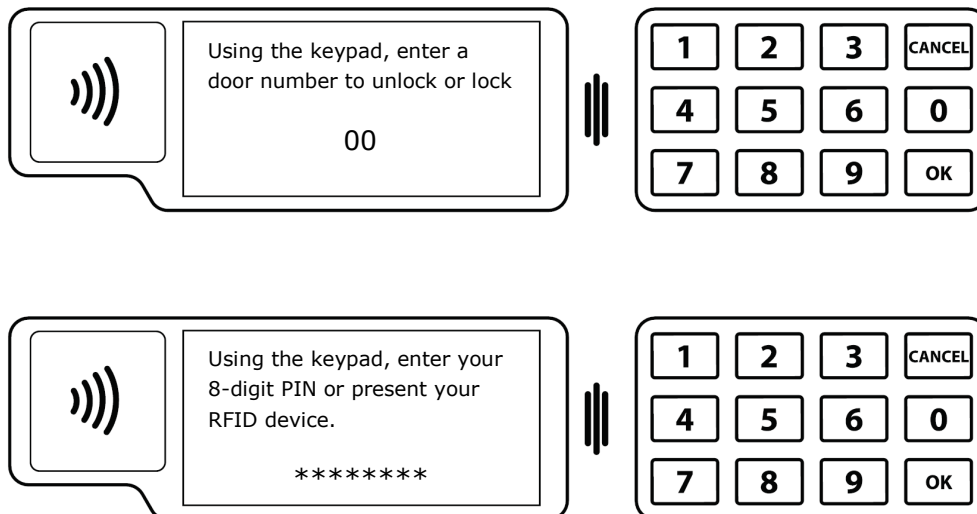
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ADMIN OVERRIDE MODE – MENU OPTIONS

Once authentication has been successful, options will be displayed on the screen.
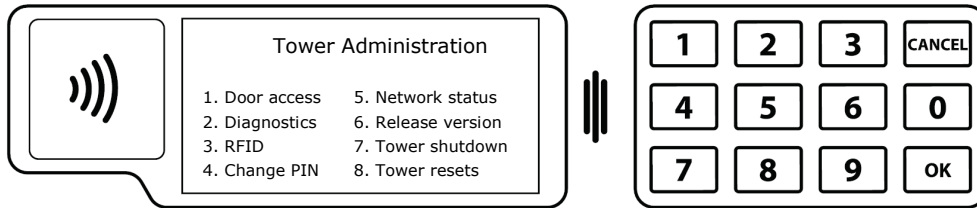
Press 1: Door Access
Open, inspect and quarantine lockers.

Press 2: Diagnostics
Run and test the various hardware components – Keypad, Door Locks, RFID Reader and checking the system clock.

Press 3: RFID
Register Admin RFID(s), register/assign user RFID(s) to doors and clear RFID(s).

Press 4: Change PIN
Change the FUYL Tower's Admin PIN. Default PIN is 31082018. You can generate a new PIN from this option.

Press 5: Network Status
View; Ethernet IP, Ethernet MAC, Wi-Fi IP, Wi-Fi MAC and the Portal address.

Press 6: Release Version
View the release version of the software running on your FUYL Tower.

Option 7: Tower Shutdown
When you want to turn off your FUYL Tower, use this option rather than switching it off from the wall socket so any unsaved data can be stored away properly.
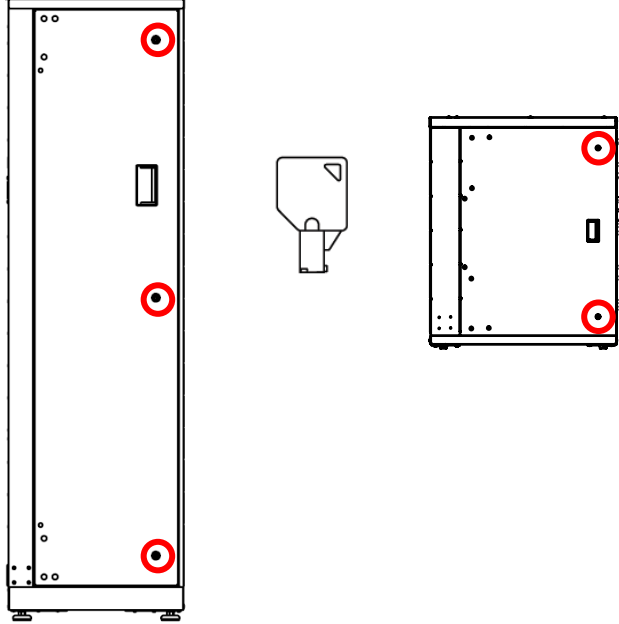
Option 8: Tower Resets
Use this option to reboot/restart the Tower.

MANUAL DOOR OVERRIDE

This can be performed if power is not available to the unit and doors need to be opened.

Use the keys provided to open the side panel door by unlocking the side panel locks (3 locks for the FUYL Tower 15 and 2 for the FUYL Tower 5).

All 15 or 5 lock modules are now accessible. Locate the lock module for the bay you wish to override and open

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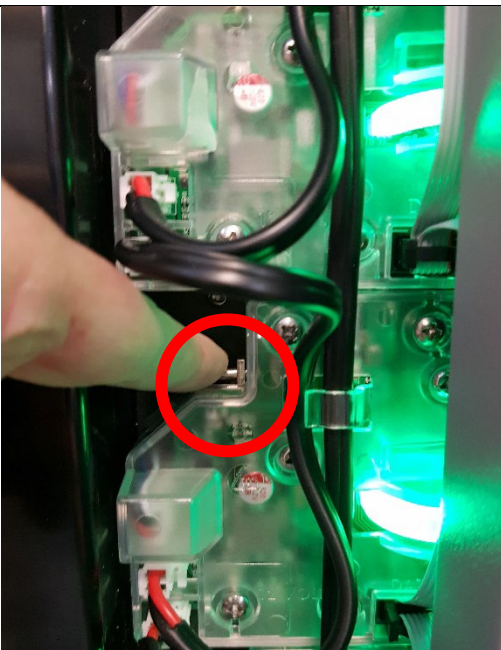
Firmly press down on the lever on the top left of the lock module to release that door.

Use the levers on the lock modules to unlock all the doors needed, then close and lock the side panel door.

Once this process is performed, the ongoing state of the lockers will be determined at the moment that power is returned. Lockers that were manually opened and left open when the power is returned will be unlocked. Lockers that are closed and left closed when the power is returned will not lose their state – they will continue to be locked as if they were never opened.

For example:

- Locker #5 is locked

- The power is removed

- The manual override is used to open locker #5

- Alternatively, if the door #5 is reclosed before the power returns, then locker #5 will still be locked, with the same PIN as before.

LOCAL MANAGEMENT PORTAL

The FUYL Tower can be administrated:

1. over a wired local network
2. over Wi-Fi (this needs to be setup first via the management portal.
   NOTE: Wi-Fi is limited to WPA-2 only.
3. by directly connecting a laptop to the FUYL Tower using an Ethernet cable.
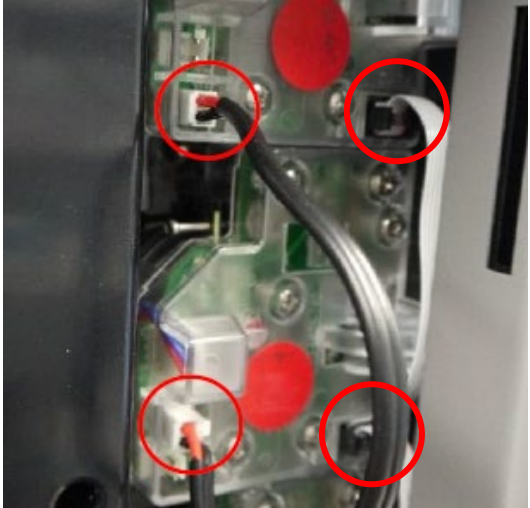
This is performed using a browser (Firefox, Explorer, Edge, Chrome, Safari). NOTE: Some browsers will falsely report security warnings after secure login is attempted. The explanation is simple. The site is on a local network, not the internet, so the browser cannot verify the identity of the site. But the connection is secure. It is **completely safe** to **bypass** the following browser security warnings in this situation. Remember, you are not connecting through the internet, so there a very much reduced risk of attack attempts.

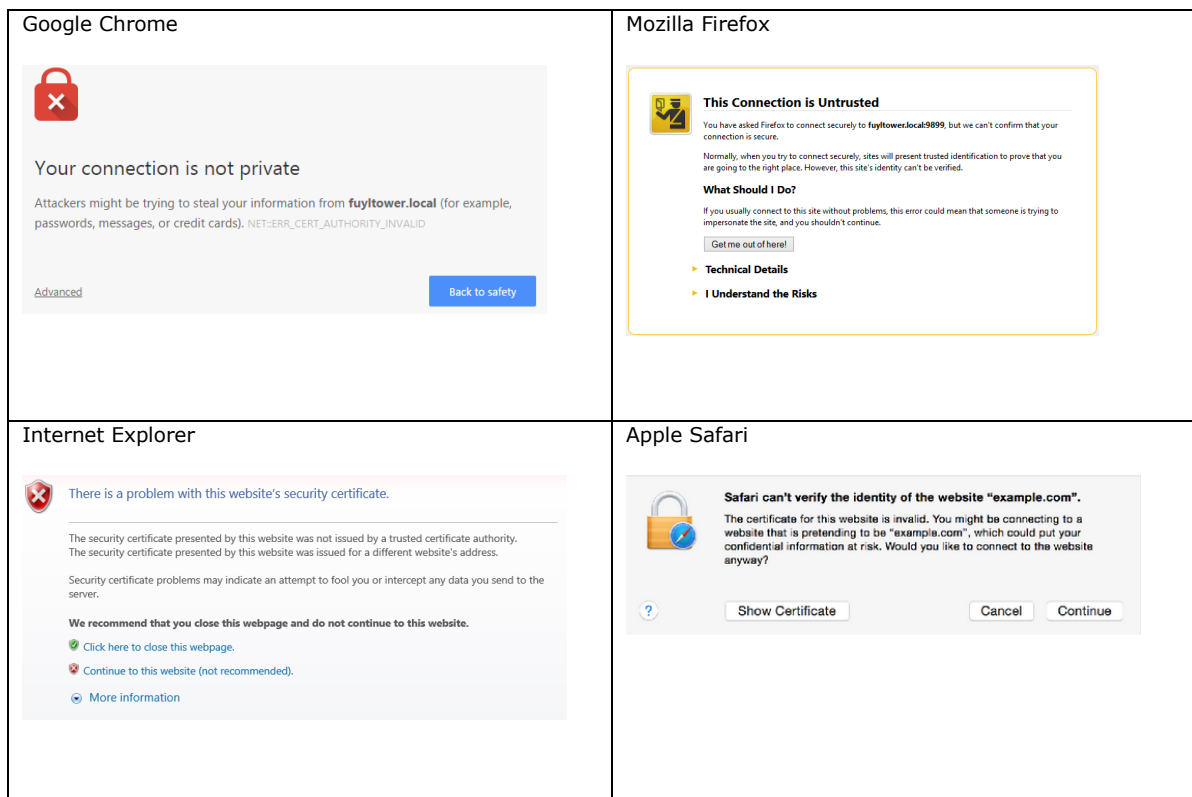| Google Chrome	Mozilla Firefox
Your connection is not private. Attackers might be trying to steal your information from fuyltower.local (for example, passwords, messages, or credit cards). NET::ERR_CERT_AUTHORITY_INVALID. Advanced — Back to safety	**This Connection is Untrusted** You have asked Firefox to connect securely to **fuyltower.local:9899**, but we can't confirm that your connection is secure. Normally, when you try to connect securely, sites will present trusted identification to prove that you are going to the right place. However, this site's identity can't be verified. **What Should I Do?** If you usually connect to this site without problems, this error could mean that someone is trying to impersonate the site, and you shouldn't continue. Get me out of here! ▶ **Technical Details** ▶ **I Understand the Risks**
Internet Explorer	Apple Safari
There is a problem with this website's security certificate. The security certificate presented by this website was not issued by a trusted certificate authority. The security certificate presented by this website was issued for a different website's address. Security certificate problems may indicate an attempt to fool you or intercept any data you send to the server. **We recommend that you close this webpage and do not continue to this website.** ✓ Click here to close this webpage. ✗ Continue to this website (not recommended). ⊙ More information	**Safari can't verify the identity of the website "example.com".** The certificate for this website is invalid. You might be connecting to a website that is pretending to be "example.com", which could put your confidential information at risk. Would you like to connect to the website anyway? ? — Show Certificate — Cancel — Continue

There is a separate user guide for the portal which covers the setup process and instructions for use. Please refer to the FUYL Tower Local Management Portal User Guide.

TROUBLESHOOTING

My FUYL Tower isn't responding to commands to open a compartment.	Check the electrical connection on the lock module. Ensure that it is pushed all the way in. This cable may have come loose during transit. If the problems persist, check what version software you are running. Lock firmware was released in software version 1.2.2 that improved the reliability of the locks.
I don't have an ethernet port point in the location that I want to install the FUYL Tower and want to set it up on Wi-Fi. Can I do that without a plugging the Tower into a network point/ethernet port?	Yes. You can also do it using your laptop. 4. Connect your Tower to your laptop with the ethernet port 5. Turn your Tower on. 6. On the LCD, enter the admin menu by pressing '00' and then your password (default is 31082018) 7. Enter #5 (Network Status) 8. Record the 'Portal Address' 9. Open a new browser and type in the portal address recorded. Note: it's safe to proceed past the warning screen. 10. Login to the portal. Default credentials: Username is admin, Password is U63r6a5k3t 11. Go to the Network page and configure the Wireless Network settings. NOTE: Wi-Fi is limited to WPA-2 only. 12. Save setting. The FUYL Tower is reset. 13. Repeat steps 3 to 7 to login to the Tower to configure all the FUYL Tower's settings. Don't forget to change your passwords and record them in a safe place.

WARRANTY

PC Locs/LocknCharge warrants the product to be free of defects in design, materials, assembly and craftsmanship from the date of purchase to the original retail purchaser. Evidence of original purchase will be required to obtain warranty service.

In the event that a defect, malfunction or failure occurs or is discovered during the warranty period, PC Locs/LocknCharge will repair or replace, at its option, the products which in the reasonable judgment of PC Locs/LocknCharge are deemed defective. All transportation costs shall be borne by the owner and the risk of loss shall be upon the party initiating the transportation.

The warranty does not apply to any product that has been subject to misuse, tampering, neglect, or accident or as a result of unauthorized alterations or repairs to the product. The warranty is in lieu of all warranties expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose which are expressly excluded or disclaimed. In no event will PC Locs/LocknCharge, their directors, officers, employees, or agents be liable for any harm, consequential, incidental, third party, special or indirect damages whatsoever arising out of the use or inability to use the products even if PC Locs/LocknCharge has been advised of the possibility of such damages.

PC Locs/LocknCharge obligation is strictly and exclusively limited to the replacement or repair of any defective products. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.