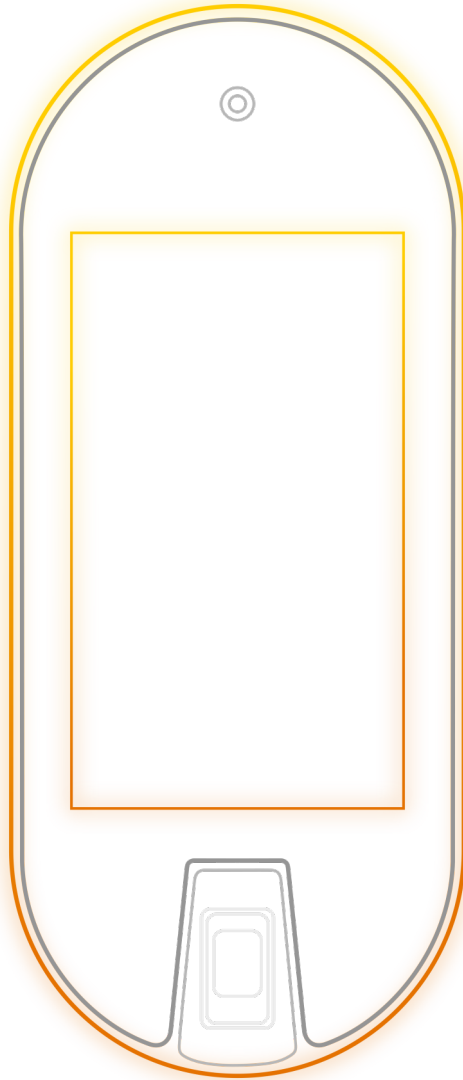


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## **T2 Installation Guide**

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# Specification

Authentication Modes	Face/Finger/Card/Fob
Contactless Clocking	✓
Onboard User Enrolment	✓
HD Biometric Camera	✓
Internal Proximity Reader	✓
Integrated Card Enrolment	✓
Supported Users	10,000
Case	PTFE Coated Aluminium Alloy
Networking	Ethernet, Wi-Fi b/g/n/ac
Environmental	IP65 Certified
Typical Power Consumption	11W
Power Source	DC or PoE+ (802.3at)
Mains Adapter	Optional
Operating Temperature Range	-10 to 40°C
Certifications	UKCA/CE/RCM
Dimensions (H x W x D mm)	296 x 126 x 40



# Installation

Before use the device should be wall mounted using the supplied bracket. The T2 supports a wide variety of installation options.

If installed correctly, the T2 can offer full **IP65 environmental protection** to support use both outside and in challenging environments.

The unit may be powered by a dedicated **12V DC** power supply. Advanced only recommend the use of a DC power supply certified and supplied by Advanced.

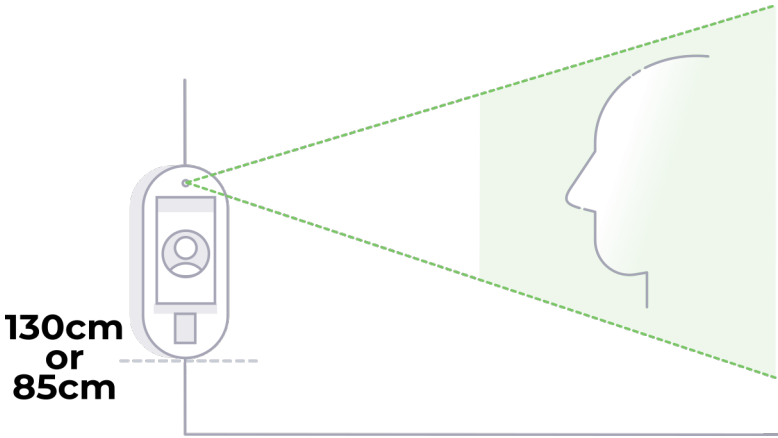
Alternatively it can be powered from a **Power over Ethernet** source (802.3at compatible).



# Placement

If the T2 is to be used for authentication using face biometrics, height from the ground is a critical factor when considering where to place the device.

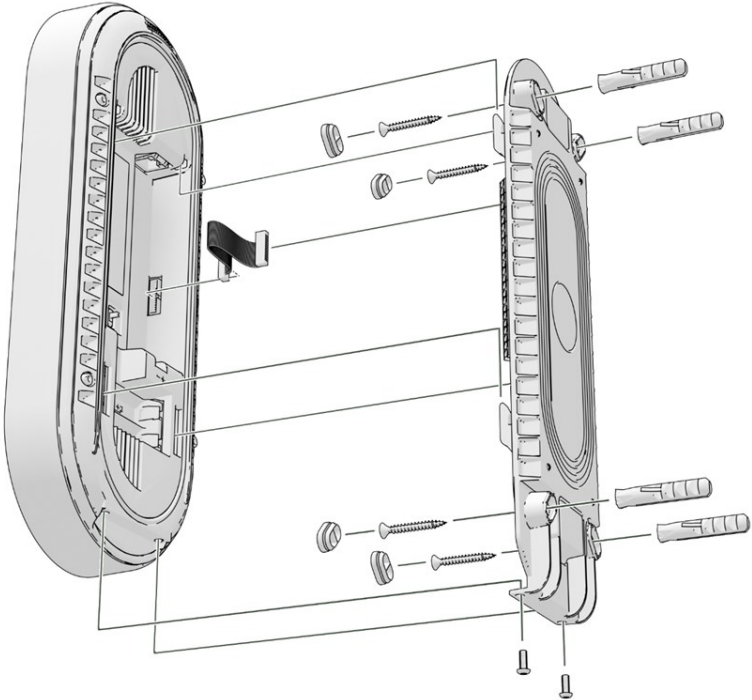
The measurement chosen will depend on the accessibility needs of the installation.



Consider the environment's lighting when placing a face authentication unit. Bright lights behind faces may limit the unit's ability to correctly identify users.

# Installation Steps

- 1** Run all cables to the terminal mounting point. The cables can enter the T2 from the top, bottom or rear. Only the rear can be used if an IP65 installation is required.
- 2** Break out the required opening in the mounting bracket to allow the cables to enter the unit.
- 3** If required, apply sealant around the channels on the rear of the bracket.

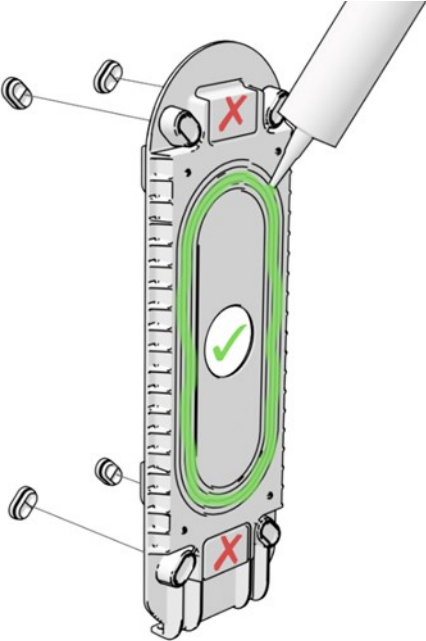


- 4** Using 4mm screws, fix the mounting bracket to the wall, ensuring the sealant creates a good seal with the wall if applicable.
- 5** If required, fit the screw bungs over the screws
- 6** Connect the cables to the unit.
- 7** If the access control board is fitted, insert the ribbon cable at both ends.
- 8** Using the switch on the rear of the unit, turn the T2 unit on.
- 9** Push the unit onto the bracket and slide it down.
- 10** Fit and tighten the two security screws to the bottom of the unit.



# IP65 Protection

- 1** The provided rubber seals must be fitted to the four screw holes in the mounting bracket
- 2** The cables must enter through the opening in the rear of the mounting bracket. The upper and lower cable entries must be left intact
- 3** Exterior grade sealant should be applied to the guide channels in the rear of the mounting bracket, to seal the unit against the wall





# Powering on and resetting the T2

Your T2 will need switching on during the installation process (see Installation Steps, step 8). The switch is located on the rear of the device. The device can be switched on before power is applied to the input.

The reset switch is also located on the rear of the device. To reboot the device, press and release the button. To enter factory reset mode, push and hold the button, or power the unit on while holding the button.

The unit allows you to reset to the factory-original operating system, revert to the previously installed version, or reinstall the current version.

## Cabling Options

The T2 can be used with a provided DC power supply which uses either a barrel-jack connection for convenience, or it can take the power input from screw terminals, providing higher flexibility during installation.

The gigabit ethernet port uses a standard RJ-45 connector. CAT-5E cable or better is recommended. External cables or cables longer than 30m connected to the ethernet port must be shielded.



# Connectivity

The T2 clocking terminal is part of the **Advanced Device and Access Manager**, which is a SaaS solution hosted on cloud infrastructure. Therefore, the T2 must be able to connect to the cloud infrastructure to operate properly.

While the T2 will continue to work while offline, a connection is required to pick up employee or configuration updates, and to send out clocking or enrolment data. Clocking data will not be received by the Time and Attendance application until the cloud connection is restored.

## Networking

The T2 uses standard TCP/IP networking and can be configured to use wired **ethernet** (1000/100 Mbps) or **Wi-Fi** b/g/n/ac (2.4/5GHz). Whichever is chosen, the T2 can be configured to use either a static IP address or pick up an IP address using DHCP.

Optionally, a cellular router can be purchased to provide a network connection to the T2, either over Ethernet or Wi-Fi.

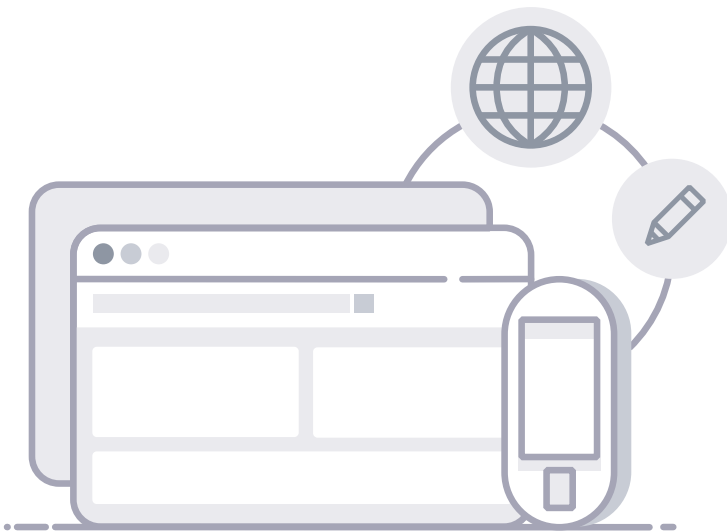
No special configuration of your firewall should be necessary providing the T2 is granted internet access. If your security policy mandates tight control, please refer to the T2 Network Requirements document for details.

If a MAC address is required to allow the device onto the local network, it can be displayed on-screen once the T2 is installed by navigating to the network settings screens.

# Device Registration

When the device is installed for the first time, an engineering PIN code will be required to register the unit with the management portal. This PIN code, obtained from the management portal, will be supplied to the engineer prior to the installation. It is vital to remember that there is a unique code for each specific T2.

**Note:** Performing a factory reset will erase the T2 and require it to be registered again. The configuration and user data will be restored to the device after re-registering.



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Designed and manufactured in the UK by Advanced Business Software and Solutions Limited, The Mailbox Level 3, 101 Wharfside Street, Birmingham, B1 1RF.

Contains radios for 802.11b/g/n/ac W-Fi (2.4 and 5GHz) and 13.56MHz RFID. Compliant with directives 2018/53/EU and 2011/65/EU. Full compliance information and certificates are available at [oneadvanced.com/compliance](https://oneadvanced.com/compliance)

Equipment product code: 10002851

