



Smart Outlet T20 User Manual



SAFETY PRECAUTIONS

Before installing, servicing, or removing this outlet, read and follow all safety guidelines below:

ELECTRICAL SHOCK HAZARD

1. De-energize Completely:

- Multiple disconnect switches may be required to fully de-energize the circuit.
- Use only a circuit breaker that disconnects BOTH Line (Live) and Neutral conductors simultaneously.
- Verify power is OFF at the breaker before touching wires.
- Test every terminal with a non-contact voltage tester before proceeding.

2. Code Compliance:

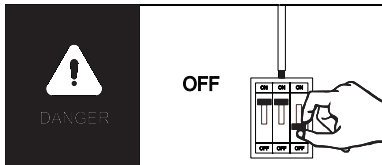
- Install and use strictly in accordance with the National Electrical Code (NEC) or local electrical regulations.
- If unfamiliar with electrical codes or uncomfortable with any step, hire a licensed electrician.

3. Environmental Safety:

- Never handle the outlet:
 - With wet hands
 - While standing on wet/damp surfaces
 - In humid or wet environments.

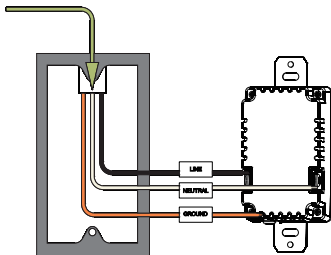
CRITICAL WARNINGS

- Failure to de-energize may cause electric shock, fire, or fatal injury.
- Improper installation voids warranty and may damage connected devices.

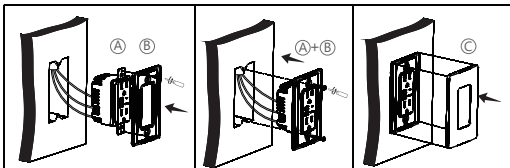


Installation

1. Remove the existing wall plate and outlet.
2. Verify that you have a Line wire (black or red), Neutral wire (white or grey) and a Ground wire (green, yellow and green or stripped bare copper).
If any of these wires are missing or have a different color, please stop the installation and contact a professional electrician.
3. Connect wires to Onvis T20 with screws.



4. Place the snap plate(B) on the main unit(A) and secure it with 2 screws (small); Mount the main unit (A) and snap plate (B) into the wall with 2 screws (large); Push the face plate (C) onto it.
5. Turn on power at the circuit breaker that controls the Onvis T20.



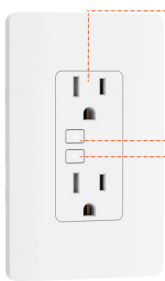
QUICK START GUIDE

1. Make sure of a Thread network of a **Thread Matter hub**.
2. Reset the T20 smart outlet by long pressing the upper button for 10 seconds until its LED blinks slowly.
3. Make sure the T20 is within Bluetooth range with your phone, and under coverage of the Thread network.
4. Launch the app (Apple Home, Google Home, Alexa or SmartThings) of the respective ecosystem hub to add T20.
5. Tap '+', and scan the Matter QR code on device or on user manual, or manually input the setup code. Name the T20 and assign it to a room.
6. Talk to the voice assistant or use the ecosystem app to control On/Off.
7. Two Power meters can be read directly in Samsung SmartThings App and Onvis Home App (iOS).
8. Download the free Onvis Home iOS App. Copy or manually input the Set Up Code generated from the first ecosystem to access custom features like logs, firmware timers, holiday mode and countdown control.

Tips

1. The Matter QR/setup code can be used in the **FIRST** ecosystem Only.
2. To add T20 to another Thread Matter ecosystem, please generate a new QR/setup code from the previous ecosystem app.
3. Use the ecosystem app to create schedules, automations and scenes.
4. Use the ecosystem cloud to control T20 away from home.
5. After setting up, T20 will act as a Thread router to extend your Thread network.
6. Occasionally, the Thread network gets unstable, especially when a new device is added. It might take up to 24 hours for the Thread network to heal and adapt to the new structure.

Onvis Smart Outlet T20 Overview



Smart Outlet * 2

Plug in your device and control its on/off.
Each outlet is independent.

LED Indication

- Waiting for commissioning: Slow blinking
- Disconnected: Fast blinking
- Identify: Flashing twice
- Connected On: Solid On
- Connected Off: Solid Off

Power Button * 2

- Press the button to turn on/off the corresponding outlet.
- Long press the upper button for 10 seconds to reset.

Matter Thread hubs

For Apple Home:

1. Apple Thread Matter hubs include: HomePod mini, HomePod(2nd Gen), Apple TV 4K (2nd gen), Apple TV 4K (3rd gen, 128 GB).
2. The use of an Apple Home accessory needs the follow permissions:
 - a. Settings>iCloud>iCloud Drive>Turn On
 - b. Settings>iCloud>Keychain>Turn On

For Google Home:

Google Thread Matter hubs are: Nest Hub (2nd gen), Google TV Streamer, Nest Hub Max, Nest Wifi Pro.

For Alexa:

Alexa Thread Matter hubs are: Echo (4th gen), Echo Hub, Echo Plus (2nd gen), Echo Show 8 (3rd gen), Echo Show 10 (3rd gen), Echo Show 15 (2nd gen), Echo Show 21, Echo Studio, eero 6, eero 6+, eero Pro 6, eero Pro 6E, eero Max 7.

For Samsung SmartThings:

SmartThings Thread Matter hubs are: SmartThings Hub v3, SmartThings Station.

Specifications

Model: T20

Input: AC 120V~, 60Hz

Output: Max. 15A / 1800W

Wireless Connection: 802.15.4 (Thread)

Commission: Bluetooth

Dimension: 118*75*46 mm

Net Weight: 150g

Material: V0 Fire-resistant PC

Operating Temperature: 0-40 °C (32°F-104°F)

Operating Humidity: 5%-95% RH

Usage: Indoor use only

FAQ

1. Why did I fail to set up my Onvis T20 smart plug ?

- (1) Make sure Bluetooth is enabled in your iOS device.
- (2) Make sure the T20 is within Bluetooth range of your iOS device.
- (3) Make sure your Thread network is in place and working, and the T20 is within Thread coverage.
- (4) Input the correct MATTER setup code.
- (5) Make sure the ecosystem app and hub supports Thread and Matter commissioning. An Android device and app are required to commission to Google, Alexa and SmartThings hubs(as of Jan 2023).

2. No Response

- (1) If the connection of T20 and the Thread network is too weak due to long distance, try deploying a Thread router device to expand Thread network.
- (2) When used in multi-ecosystems simultaneously, there might be delays or even failures.

Warnings

- Timer could turn-on unexpectedly without the user being present. To Reduce the Hazardous Condition – Unplug the appliance that is plugged into the receptacle(s) controlled by the timer before servicing.
- Risk of Electric Shock. Do not plug into another relocatable power tap or an extension cord.
- DO NOT remove ground pin (middle pin) or use with 3-to 2-prong adapter.
- DO NOT use with devices that should not be operated unattended, such as power tools.
- DO NOT use in precision timing applications where inaccurate timing could be dangerous (sunlamps, Saunas, etc).
- Keep children away from this smart outlet.
- No Serviceable parts inside. DO NOT open or tamper with unit.
- DO NOT expose to heavy rain or immerse in water or any other liquid.
- DO NOT clean with liquid.
- DO NOT install near water or heat sources.
- DO NOT exceed the recommended electrical ratings.
- All repairs must be performed by qualified/licensed electricians.

IC: 29830-T20

-English: This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

(1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device. To maintain compliance with RSS-102 RF Exposure guidelines, this equipment should be installed and operated with minimum 20cm distance between the radiator and your body. Use only the supplied antenna.

-French: Le présent appareil est conforme aux CNR d' Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et (2) l' utilisateur de l'appareil doit accepter tout brouillage radio électrique subi, même si le brouillage est susceptible d'encompromettre le fonctionnement.

Pour être conforme aux lignes directrices d'exposition RF RSS-102, cet équipement doit être installé et exploité à une distance minimale de 20cm entre le radiateur et votre corps: n'utilisez que l'antenne fournie.

FCC ID: 2ARJH-T20

Federal Communications Commission (FCC) compliance statement:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, this equipment should be installed and operated with minimum 20cm distance between the radiator and your body. Use only the supplied antenna.



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support@onvistech.com



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12-month warranty



Lifetime technical support