



INSTRUCTION MANUAL

MTS17D

SMART 2 CHANNEL DIMMER MODULE



1. SPECIFICATIONS

Function	Range
Rated Frequency	50/60Hz
Rated Max. Load	200W (LED) / 300W (Incandescent)
Rated Max. load per Channel	125W- LED 200W - Incandescent
Rated Voltage	180V to 250V AC
Voltage Range	100 to 264V AC
Wi-Fi Parameter	802.11b/g/n, 2.4GHz networks only, 5GHz networks not supported
Bluetooth	V5.1GFSK (BT LE)
Voice Control	Alexa & Google Assistant
Dimensions	42 x 42 x 22mm
Housing Material	PC (Flame Retardant VO)
Standards	IEC60669-2-1, IEC60669-1, AS 60669.2.1, AS/NZS60669.1
Approvals	RCM / ICASA / LOA

2. DOWNLOAD THE FREE MAJOR TECH HUB APP BY SCANNING THE QR CODE



3. OVERVIEW

Enhance your lighting control with the MTS17D 2-Channel Smart Dimmer Module, seamlessly integrated with the Major Tech Hub app for smooth, accurate dimming. Each channel supports up to 125W LED or 200W incandescent loads and can operate in trailing or leading edge mode within a 180-250V AC range, ensuring stable performance. With both 2.4GHz Wi-Fi and Bluetooth, the module guarantees reliable, responsive control, with Bluetooth taking over if Wi-Fi is unavailable. Voice control via Alexa and Google Home adds further convenience. The dual-channel design allows independent control of two separate lighting circuits in one compact module, reducing installation space and complexity. This makes it perfect for rooms with multiple light sources. Users can also customise lighting automations and schedules across both channels to create layered atmospheres, improve convenience, and optimise energy consumption.

Note:

- The MTS17D supports conventional dimmable lamps or lights (Not intended for smart bulbs).
- Ensure the MTS17D Module is installed by a qualified professional in accordance with local regulations.
- The MTS17D can be used with the Major Tech Hub app and/or manually with bell press switches for app free control.

4. USAGE INDICATOR

Blue LED Indicator: This will flash to indicate that the MTS17D is in pairing mode, and is ready to be added to your device list in the "Major Tech Hub" App. This indicator will stop flashing during the pairing process once a successful connection has been made.

5. BASIC FEATURES

- **Seamless App Compatibility:** Effortlessly adjust lighting using the Major Tech Hub app, setting the perfect ambiance from anywhere.
- **Energy Efficient:** Optimise energy usage with precise dimming control for both LED and incandescent lamps, including adjustable minimum and maximum brightness ranges from 1% to 100%.
- **Advanced Timing Options:** Enjoy precise control, over the devices connected to this Dimmer Module, with versatile timing options, including Countdown, and Schedules for both channels or for each channel independently.

- **Smooth and Precise Dimming Control:** Enjoy a flicker-free dimming experience with gradual adjustments in increments of 1%, allowing you to set the brightness, independently for each channel, to any level between 1% and 100% for granular control over lighting output.
- **Customisable Automations:** Create and save personalised lighting automations with the Major Tech Hub app. Automations can control switching on/off, setting specific brightness levels, or adjusting brightness in increments of 1%, 10%, or 20%. These automations can be activated automatically or with a tap-to-run option for added convenience.
- **Voice Control Compatibility:** Compatible with Alexa and Google Assistant for seamless control.
- **Dual Mode Connectivity:** Utilise Wi-Fi and Bluetooth for reliable and responsive control, with Bluetooth providing failover support if Wi-Fi connectivity is lost, compatible with 2.4GHz networks.

IMPORTANT NOTES:

- Installation of the MTS17D, must only be performed by a suitably qualified professional in accordance with the wiring rules and codes, and regulations as applicable in the country of installation.
- Ensure that power to all circuits is switched off before attempting any electrical installation or maintenance, failure to do so may result in injury, electric shock or death.

6. INSTALLATION INSTRUCTIONS

1. Supply:

- a. Connect the Live and Neutral AC Supply Conductors to the respective **L (L-in)** and **N (N-in)** input terminals on the **MTS17D**.

2. Bell Press Switches: refer to 9. CONNECTION DIAGRAM A (Page 12)

- a. Connect and wire the control terminal **S1** on the **MTS17D**, to terminal **L** on the Bell Press Switch.
- b. Connect and wire the **L1** terminal of the Bell Press Switch to the Neutral Conductor.
- c. Follow above Steps **2.a.** to **2.c.** again for connecting the second Bell Press Switch to **S2**.

3. **No Bell Press Switches:** refer to **10. CONNECTION DIAGRAM B** (Page 13)

a. Ignore **Step 2** above if the installation will exclude Bell Press Switches.

4. Load:

a. Connect and wire the **L-Out1** output terminal on the **MTS17D** to the Live of the corresponding Load to be controlled by the Bell Press Switch connected to **S1**.

b. The Neutral of the Load should be wired and connected to the Neutral Conductor.

c. Follow above Steps **4.a.** & **4.b.** again for connecting **L-Out2** output terminal and the corresponding Load controlled by the Bell Press Switch connected to **S2**.

5. Securely fasten, and check all connections and the corresponding terminals on the **MTS17D**.

6. Once all connections are secure, install the **MTS17D** in an appropriate location, ensuring it is not exposed to water or rain (e.g. Wall Box, Junction Box etc.).

7. Turn the power back on, verify that the **MTS17D** has power and that the indicator LED is flashing before proceeding.

8. The **MTS17D** may now be paired to the Major Tech Hub smart application.

NOTE: Bell Press Switches must never be connected to a Live Conductor, this will cause the MTS17D to short out when a Bell Press Switch is closed, and will damage the unit.

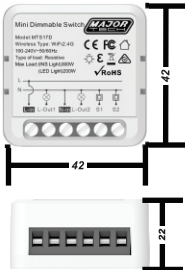
NOTE: S1 & S2 terminals may never be connected to one single Bell Press Switch, this will lead to operation and control instability, and may damage the MTS17D and/or connected loads.

7. CONNECTING THE DEVICE VIA THE APP

1. Download the free “**Major Tech Hub**” Smart App from either the Google Play Store or Apple App Store.
2. Go to the App Settings on the device you installed **Major Tech Hub** on and grant all necessary permissions to the App, this is to ensure full functionality of the App and the seamless connection of your smart devices.
3. Always ensure your phone is connected via a 2.4GHz Wi-Fi Network (Our Smart Devices are not compatible with 5GHz Networks to ensure good range and a stable connection).
4. **Power on MTS17D:** It will boot up in pairing mode by default after initial installation, and the Blue Indicator LED will start flashing quickly confirming pairing mode is active.

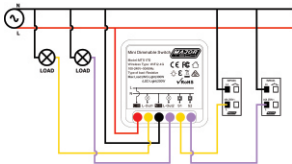
- a. If the Indicator is not flashing, press and hold the reset button on the back of the unit for 7 seconds to enter pairing mode, the Blue Indicator LED will start flashing.
5. **Add Device:** The desired 2.4 GHz Wi-Fi Network must be available and connected to the device running the **Major Tech Hub** App. On the App "Home" screen, tap on the "+" or "Add Device" Icon.
6. The App will automatically display the list of all your activated Smart Devices that are ready and in Pairing Mode.
7. Tap on "Add" to start to add all discovered Smart Devices.
8. Enter the SSID and password of the desired 2.4GHz Wi-Fi Network, then tap "Next" to begin adding Smart Devices.
9. A screen will appear showing you the progress for each device that is being added.
10. Once a device has been added you can edit the Device's Name and place it in one of the rooms you have set up in your "Home".
11. Once completed the Control Panel of your newly added Smart Device will open automatically allowing you to further customise and program the device as you require.

8. PRODUCT DIMENSIONS (MM)



9. CONNECTION DIAGRAM A

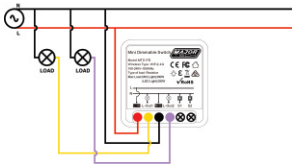
Wiring directly to a load with a bell press switch for manual control.



NOTE: Bell Press Switches must only be connected across the MTS17D Switch Terminals and Neutral Line

10. CONNECTION DIAGRAM B

Wiring directly to a load with no physical switch.





MAJOR TECH (PTY) LTD

South Africa

🌐 www.major-tech.com

✉ sales@major-tech.com

Australia

🌐 www.majorotech.com.au

✉ info@majorotech.com.au

