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Dallas, Texas, USA



**THIS MANUAL MUST BE LEFT WITH
THE OWNER FOR FUTURE REFERENCE**

⚠ WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury, or loss of life.

Installation and service must be performed by a licensed professional HVAC installer (or equivalent) or a service agency.

INSTALLATION AND USER INFORMATION GUIDE

M0STAT120N-1 Indoor Wired Programmable Controller

CONTROLS
508332-01 1/2024
Supersedes 12/2023

⚠ WARNING

INGESTION HAZARD: This product contains a coin battery. Keep new and used batteries out of the reach of children.

If the battery compartment (if applicable) does not close securely, stop using the product and keep the product away from children.

Swallowing a coin battery can lead to internal chemical burns, perforation of soft tissue, and death. Severe burns can occur within two (2) hours of ingestion.

If you suspect batteries have been ingested or inserted inside any body part, seek immediate medical attention.

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⚠ CAUTION

As with any mechanical equipment, contact with sharp sheet metal edges can result in personal injury. Use caution while handling this equipment. Wear gloves and protective clothing.

⚠ IMPORTANT

Frequent changes to operating mode may cause system malfunctions. Allow at least one minute between mode changes to allow the system to stabilize.

General

The MOSTAT120N-1 is a wired programmable local controller for mini-split indoor units with convenient timed schedules for daily operation. These instructions are intended as a general guide and do not supersede local codes in any way. Consult authorities having jurisdiction before installation.

Requirements

Verify the power supply has been turned off before beginning installation. This controller should be used only as described in this manual.

Do not install the controller on exterior walls (where there is unconditioned space on opposite side of wall) or in locations where direct sunlight may be present.

Shipping and Packing List

Item	Qty
Wired Controller	1
Battery	1
Connection Cable D for MWMC, MWHB, and MWCB wall mounted models.	1
Connection Cable for MMDA/B, MCFA/B, M22A and M33A/B/C indoor units	1
Installation and User Information Guide	1
Screws for securing back plate to drywall (M3.9*25)	3
Drywall anchors for securing back plate	3
4-pin extension cable assembly - 20 Feet (6 meters)	1
Ground screw for extension cable (M4x8)	1
Battery (CR2032; 3.0V)	1

Product Overview

- Wired programmable local controller for mini-split indoor units with convenient timed schedules for daily operation
- Weekly timers (2), 7-day timer, up to 8 scheduled events per day
- Schedule start time, mode, set point, and fan speed
- Compatible with all indoor units
- Copy/paste function for easy duplication of events to other days
- Built-in system diagnostics
- Dimensions (H x W x D) - 4-3/4 x 4-3/4 x 7/8 inches (83 x 83 x 22 mm)
- 3-1/2 inch (89 mm) back-lit LCD display screen
- Adapter cables are furnished for various indoor unit connections
- Maximum cable length using multiple extension cables (sold separately) is 164 feet (50 meters)
- Hardware for mounting furnished
- Power Supply: 12 VDC
- Audible tone when a button is pressed (can be disabled)
- Lock function disables buttons to prevent tampering

Product Features

- **Active Clean** - Washes away dust, mold, and grease that may cause odors when it adheres to the indoor coil by automatically freezing and then rapidly thawing the coil. After 20 to 45 minutes the unit will automatically cancel the operation

NOTE: *Only available in COOL or DRY modes.*

- **Breeze Away** - Unavailable feature on U.S. models.
- **ECO** - Controls temperature/energy efficiency of the unit. Only available in Cooling mode.
- **Follow Me** - Allows remote temperature sensing of the room at the remote controller location
- **GEAR** - Reduces electrical consumption to 75% or 50%

NOTE: *Only available in COOL or DRY modes.*

- **Breezeless** - Unavailable feature on U.S. models.
- **Intelligent Eye Display (Single Zone)** Automatically detects human activity in the room. If there is no activity for 30 minutes, the sensor reduces compressor operating frequency in cooling mode for increased efficiency. The Intelligent Eye only functions in the cooling mode and will cancel when

the unit switches to any other mode. This feature is not available for multi-zone systems.

- **Purify** - Unavailable feature on U.S. models.
- **Rotation** - Unavailable feature on U.S. models.
- **Sleep** - Enables the system to automatically increase cooling or decrease heating (in 2°F increments) per hour for the first 2 hours, then maintain a steady temperature for 5 hours
- **Turbo** - Enables the unit to reach the preset temperature during colling or heating operation in the shortest time.

Product Dimensions

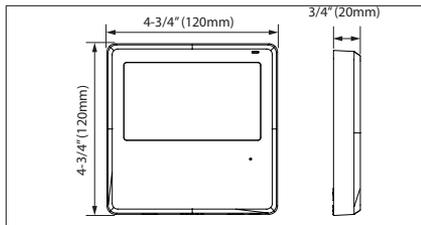


Figure 1. Product Dimensions

Removing the Back Plate

1. Insert a flat-head screwdriver into the slot located in the lower section of the back plate.
2. Rotate the screwdriver to remove the back plate.

▲ IMPORTANT

The printed circuit board (PCB) is located in the upper section of the remote control. Avoid damaging the PCB with the screwdriver.

3. Remove the back plate.

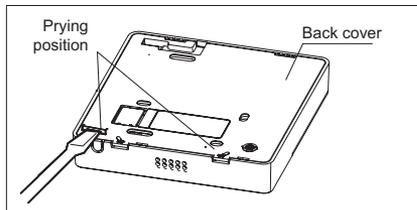


Figure 2. Back Plate Removal

Installing the Battery

WARNING

- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children.
- Do NOT dispose of batteries in household trash or incinerate.
- Used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- Non-rechargeable batteries are not to be recharged.
- Ensure the batteries are installed correctly according to polarity (+ and -).
- Do not discharge, recharge, disassemble, heat above 158°F (-70°C), cool below -4°F (-20°C), or incinerate the battery. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.

- Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period according to local regulations.
- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product. Remove the batteries and store them away from children.

1. Insert the coin battery (CR2032) into the battery slot.
2. Confirm the battery is installed according to polarity (+ and -).
3. Set the correct time.

NOTE: *In the event of a power failure, the battery will maintain the correct time after power is restored. Replace the battery if the time display is not correct after power restoration.*

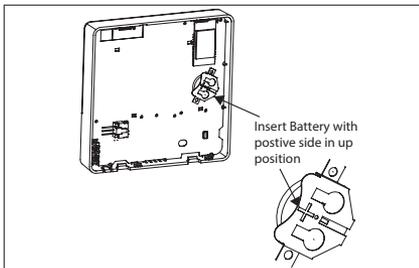


Figure 3. Battery Installation

Installing the Back Plate

When installing the back plate to a flat drywall surface, use the provided screws for securing the back plate to the drywall (ST3.9*25). Wall anchors are provided for use, if necessary.

▲ IMPORTANT

Always install the back plate on a flat surface. Do not distort back plate by over-tightening the mounting screws.

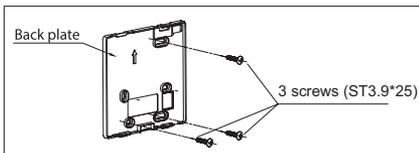


Figure 4. Securing Back Plate to Drywall

Connecting Cables

Cable Connection Illustration

1. Connect the controller 4-pin shielded cable assembly to the 4-pin shielded extension cable.
2. Connect the 4-pin shielded extension cable to the adapter board, which connects to the display board.

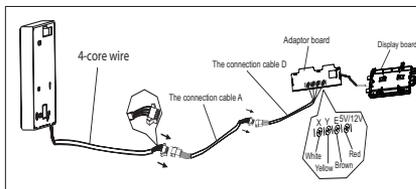


Figure 5. Connection Cable D for MWMC, MWHB, and MWCB Wall Mounted Models

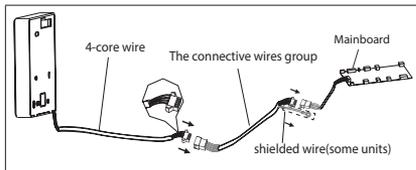


Figure 6. Connection Cable for MMDA/B, MCFA/B, M22A and M33A/B/C Indoor Units

Error Code EH63

If error code EH63 appears on the controller's display, this indicates there is a communication error between the wire controller and the indoor unit. Verify the connection is properly seated.

Reattaching the Top Panel

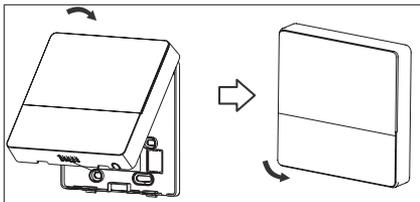
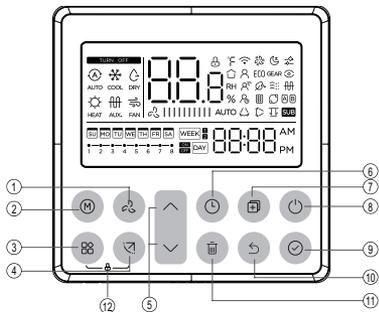


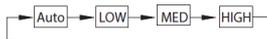
Figure 7. Reattaching Top Panel

Buttons and Functions



1. FAN SPEED Button

Press the Fan speed button to set the fan speed. (This button is unavailable under Auto or Dry mode)



When stepless speed regulation is supported, press the fan speed key to cycle through:



2. MODE Button

Press the Mode button to scroll through available operation modes (Auto / Cool / Dry / Heat / Fan).

3. FUNCTION Button

Scrolls through unit operations in this order:

- Turbo ㉮
- Sleep ㉮
- Follow Me ㉮

4. SWING Button

Used to stop or start louver auto swing feature

5. UP/DOWN Buttons

Increase or decrease the indoor temperature in 1°F (0.5°C degree increments). The maximum 86°F (30°C) and minimum depends on the outdoor unit.

- For MWMC/MWHB/MWCB/M33C the minimum is 60°F (15.5°C).

- For MMDB/A, MCFA/B and M22A the minimum is 62°F (16.6°C).

NOTE: *The temperature cannot be adjusted in FAN mode.*

6. TIMER Button

Sets unit for daily or weekly on/off operation

7. COPY Button

Copy schedules from one day to another

8. POWER Button

Turn system on and off

9. CONFIRM Button

Confirms each step when managing schedules

10. BACK Button

Returns to the previous step

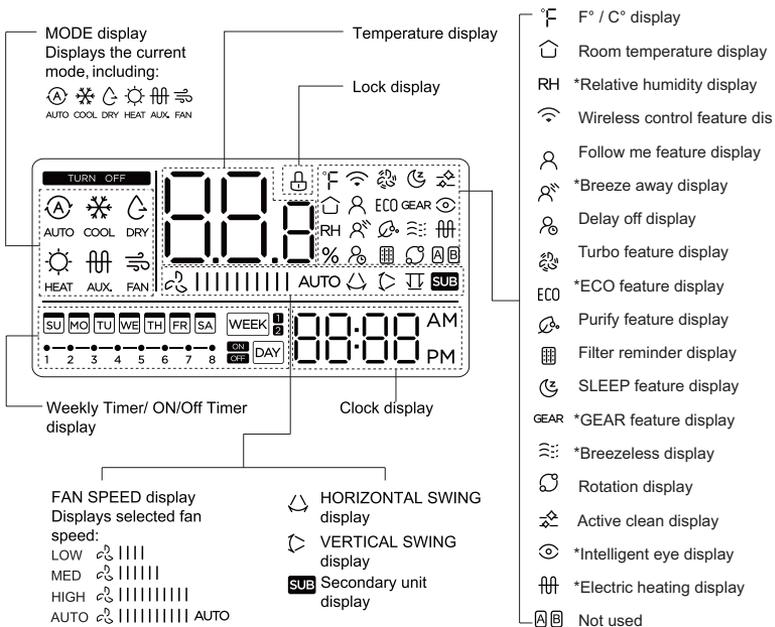
11. DAY OFF/DELAY Button

- Disable specific days/schedules of the week
- Delete a specific event

12. LOCK Function

Press the **Function** and **Swing** buttons simultaneously to lock the Controller to prevent tampering with settings.

Wired Controller Indicators



NOTE:

Icons are shown for display purposes only. An asterisk(*) indicates the function is only available on selected models.

Operations

Set Time and Date

1. Press the **Timer** button for a minimum of two seconds. The Timer display flashes.
2. Press the **Up/Down** button to set the date. The selected date flashes.



3. Press the **Confirm** button to set the date.
4. Press the **Up/Down** button to set the time. Press either button repeatedly to adjust the time in one minute intervals or press and hold until the current time is reached.
5. Press the **Confirm** button to set the time.

NOTE: Press both the *Timer and Day Off/Delay* buttons to alternate the clock time display to either 12 hour or 24 hour format.

Lock Function

1. Press both the **Function** and **Swing** buttons at the same time for three seconds to activate the **Lock** function. This also disables all button functions on the controller. When the Lock function

is activated, a lock icon displays on the controller's screen.

2. Press both the **Function** and **Swing** buttons for three seconds to deactivate the **Lock** function.

Louver Swing Function

Units with Up/Down and Left/Right Swing Functions Only

1. Press the **Swing** button to start the up and down swing function. Press it again to stop.
2. Press and hold the **Swing** button for two seconds to start the left and right swing function. Press and hold again for three seconds to stop.

Units with Up/Down Swing Functions Only

1. Press the **Swing** button to start the up and down swing function. Press it again to stop.

NOTE: Each time the **Swing** button is pressed, the louver swings an angle of six degrees. Continue to press the button until the desired direction is reached.

2. Press the **Swing** button for two seconds to activate **auto swing**. The **horizontal swing** icon displays on the controller's display.

Units with Four Up-Down Louvers

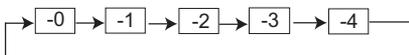
NOTE: Each louver can operate independently.

1. Press the **Swing** button to activate the **Up/Down Adjusting Louver** function. The **Up/Down Louver** icon flashes.

NOTE: The flashing Up/Down Louver icon is not applicable to all models.

2. Press the **Up/Down** buttons to select the movement of the four louvers. Each time the buttons are pressed, the louver is selected in a sequence as:

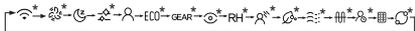
-01 indicates that all four louvers move at the same time.



3. Use the **Swing** button to adjust the **Up/Down** louver direction for each selected louver.

Selecting System Mode

1. Press the **FUNC.** button to scroll through available modes.



NOTE: An asterisk(*) indicates the function is only available on selected models. If the indoor unit does not have a specific function, it will not display.

2. Select a function. The function icon flashes on the controller's display.
3. Press the **Confirm** button to set that function.

Selecting Turbo Feature

NOTE: The Turbo feature is available only on selected models.

When in either **Cool** or **Heat** mode:

1. Press the **FUNC** button to activate the turbo feature. A turbo icon displays on the controller's display.
2. Press the **FUNC** button again to deactivate the feature.

Intelligent Eye Display

NOTE: The Intelligent Eye Display function is valid in any mode of power-on state.

For indoor units with the Intelligent Eye function:

1. Press the **FUNC** button and select the Intelligent Eye icon.
2. Press the **OK** button to activate the function. The Intelligent Eye icon displays on the controller's screen. When the Intelligent Eye function is turned off, the Intelligent Eye icon goes out.

NOTE: *Shutdown, switch mode, turn on self-cleaning and turn on 8-degree heating function automatically cancels the Intelligent Eye function.*

Filter Reset

The filter cleaning prompt icon illuminates after the indoor unit sends the wire controller filter usage time.

To reset the filter screen time:

1. Press the **FUNC** button to select the filter cleaning prompt icon.
2. Press the **OK** button to reset the filter screen time. The filter cleaning reminder icon dims.

Humidity Setting Function

When the indoor wired controller has dual control function of temperature and humidity (while functioning in dehumidification mode):

1. Press the **FUNC** button to select the RH (Relative Humidity) icon.
2. Press the **Confirm** button to enable the humidity control mode. The RH icon flashes after it is enabled.
3. Press the **Up/Down** button to adjust the humidity.

NOTE: *The setting range is OFF- >35%~85%; adjustments are*

in 5% increments. The system automatically exits the humidity control mode after 5 seconds of inactivity.

The humidity setting displays for 5 seconds and returns to the Set Humidity display.

4. Exit the humidity control mode.

GEAR Function

Only applicable to indoor wired controllers with the **GEAR** feature.

1. Press the **FUNC** button to select the **GEAR** icon when cooling mode starts.
2. Press the **Confirm** button to enter the **GEAR Control** mode. The controller screen indicates the GEAR status. GEAR options are **50%->75-> OFF**.
3. Select an option by pressing the **Up/Down** button. After five seconds, the set temperature displays.
4. Press the **Up/Down** button to adjust the set temperature.

NOTE: *The GEAR function automatically cancels when the system is turned off, switched to a different mode, sleep mode enabled, ECO enabled, or in self-cleaning mode.*

Activate / Deactivate Keypad Tone

Press the **Mode** and **Fan** buttons at the same time for three seconds to activate or deactivate the keypad tone.

Fan Speed Setting

Press the **Fan** button to set the fan speed. Users can cycle through four speed settings: Auto, LOW, MED, and HIGH.

Step-Less Speed Regulation (if supported)

Press the Fan button to cycle through: 20%, 40%, 60%, 80%, 100%, and Auto speed.

Room Temperature Settings

Press the **UP** or **Down** button to adjust the temperature. The temperature range is adjusted in one degree increments.

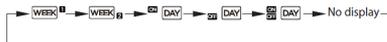
Timer Function

	WEEKLY Timer Use Weekly Timer to set operating times for each day of the week.
	ON Timer Use ON Timer to start system operation according to a set time. The system and timer begin to function after time progresses beyond the timer's start point.

	Off Timer Use OFF Timer to stop system operation according to a set time. The system and timer stop functioning after time progresses beyond the timer's end point.
	On and Off Timer Use ON and OFF Timer to command the system to function within a specified time range. The system and timer operation begin and end according to the timer's set points.

To Set the ON or OFF TIMER

1. Press the Timer button and select **ON Day** or **OFF Day**.



2. Press the **Confirm** button. The Timer starts to flash.
3. Press the **UP/DOWN** button to set the time. After the time is set, the timer will start or stop automatically.



- Press the **Confirm** button to complete the settings.

Weekly Timer 1 or 2

- Weekly Timer Setting:** Press the **Timer** button to select the **WEEK 1** and press the **Confirm** button.

NOTE: Users can press the **Back** button to return to the previous step.

- Day of the Week Setting:** Press the **UP/DOWN** button to select the day of the week and press the **Confirm** Button.

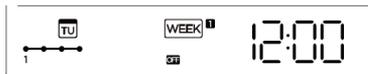
- ON Timer Setting:** Press the **UP/DOWN** button to set the time of the **ON Timer** and press the **Confirm** button.

NOTE: The timer setting can be deleted by pressing the **Day OFF** button.



Up to 4 timer settings can be saved for each day of the week. It is convenient if the WEEKLY TIMER is set according to the user's life style.

- OFF Timer Setting:** Press the **UP/DOWN** button to set the time of the **OFF Timer** and then press the **Confirm** button.



ex. Tuesday time scale 1

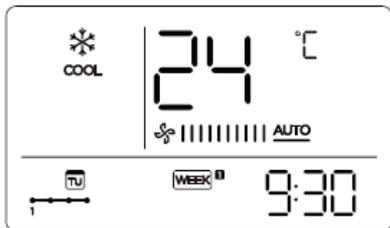
Additional timer settings can be set by repeating the actions explained: **ON Timer Setting** and **OFF Timer Setting**.

Additional timer settings for the days in the week can be set by repeating the actions explained in: **Day of the Week Setting**, **ON Timer Setting**, and **OFF Timer Setting**.

NOTE: If entered settings are not confirmed within 30 seconds, the system automatically defaults to the previous settings.

To Activate or Deactivate the Weekly Timer

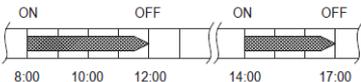
To **activate** the weekly timer, press the **Timer** button while **WEEK 1** displays on the LCD.



To **deactivate** the weekly timer, press the **Timer** button while **WEEK 1** displays on the LCD. The indicator will go blank.

Turning OFF Cooling or Heating while the Timer is Active

- Pressing the **Power** button temporarily turns off the heating or cooling until the next scheduled timer event.



- Pressing the **Power** button for two seconds turns off heating or cooling unit and cancels the timer event.

To Set Day Off for Holiday

When in the Weekly Timer setting:

- Press the **Confirm** button.

- Press the **UP/DOWN** button to select the day in the week.
- Press the **Day Off** button to set the **DAY OFF**.



ex.The DAY OFF is set for Wednesday

NOTE: The **DAY OFF** function can be set for additional days by repeating steps 2 and 3.

- Press the **Back** button to return to the weekly timer.

NOTE: The **DAY OFF** setting is canceled automatically after the set day passes.

Delay Function

When in the Weekly Timer setting:

- Press the **FUNC.** button.
- Select the **Delay** function by pressing the **Confirm** button. The display indicates 0h.



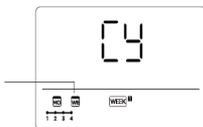
Copying Day Setting

A day's setting can be copied to another day of the week.

When in the Weekly Timer setting:

1. Press the **Confirm** button.
2. Press the **UP/DOWN** button to locate the day from which to copy.
3. Press the **Copy** button. The display indicates **CU**.
4. Press the **UP/DOWN** button to select the day to copy the setting to.
5. Press the **Copy** button to confirm.

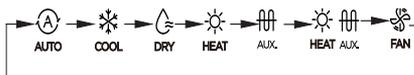
The **W** mark flashes quickly



ex. Copy the setting of Monday to Wednesday

6. Press the **Confirm** button to confirm the settings.
7. Press the **Back** button to return to the weekly timer.

Electric Heat (MMA Units with Auxillary Heat Only)



Electric Heat is generally field installed. To engage the Auxillary Heat option:

Press the **Mode** button until the Aux icon displays. The fan speed defaults to Auto.

NOTE: *The Sleep, 8-degree heating, and Turbo functions are not available while in Auxillary Heat mode.*

 *If the Heat and Auxillary icons display together, the Turbo function is disabled.*

