

MLM WALL THERMOSTAT WITH CO2 CONTROL

-  CONTROL TEMPERATURE
-  CONTROL MAX CO2 LEVELS
-  PRIMARY TEMP CONTROL STRATEGY
-  SECONDARY CO2 CONTROL STRATEGY
-  COMPATIBLE WITH RICKARDS MLM SYSTEM
-  BMS COMPATIBLE
-  MAKES CO2 CONTROL AFFORDABLE
-  NO MAINTENANCE
-  2 YEAR WARRANTY



FEATURES

The Rickard MLM/MLC Wall Thermostat with CO2 control has been designed to give the user primary temperature control and secondary CO2 level control to maintain comfort levels and keep CO2 levels in check respectively. The CO2 thermostat senses temperature and controls the temperature of the zone by modulating the damper of each VAV diffuser. When the CO2 value rises above a threshold value, the diffusers open fully until the CO2 value is brought down to an acceptable level. Thereafter the diffuser returns to primary temperature control mode.

If the diffuser is in CO2 flush mode, the user can override it to revert to temperature control mode if required. This can be activated by pressing and holding the enter button until the thermostat buzzes.

The CO2 thermostat converts any slave diffuser into a master so that it can control a zone of up to 15 diffusers. The new design boasts a modern, slim body, a larger digital screen for easier reading and discreet buttons on each side for setpoint adjustment and advanced user control.

To use the temperature/CO2 functionality of the CO2 wall thermostat it is necessary to activate it through the latest MLM application. You can either setup the system with the wizard (see setup at the end of this section) or do it manually. For detailed manual activation instructions please see the MLM Wall Thermostat with CO2 Control Setup Instructions Section. The Instructions are available on the Rickard website linked from this products page.



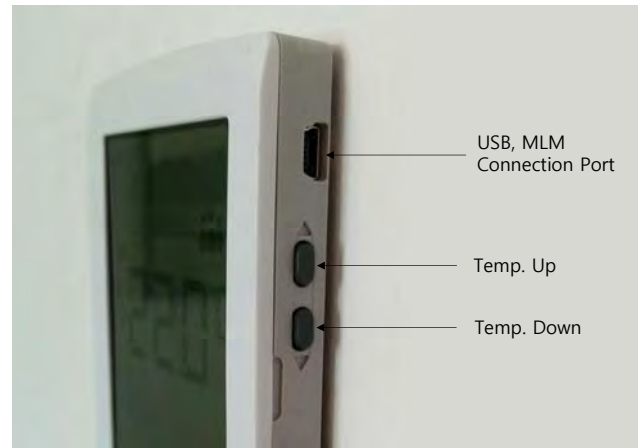
AESTHETICS

DISPLAY BUTTONS

The Rickard Wall CO2 Thermostat has been designed with discreet buttons located on either side of its body. One side allows straight forward temperature adjustment and the other advanced user control.

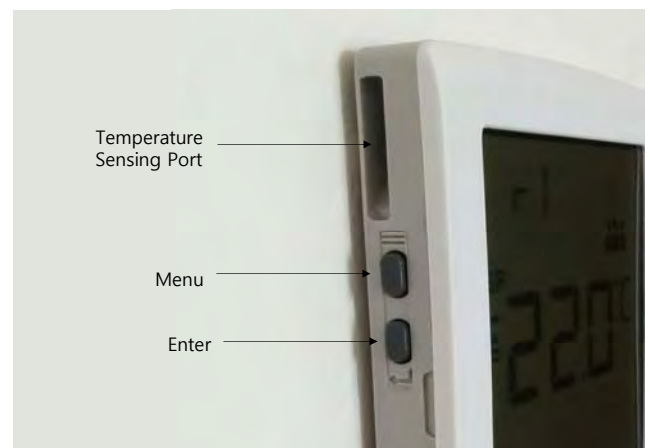
Right Hand Side Buttons

The buttons located on the right hand side adjust the temperature up or down. The Up button increases and the Down button decreases the temperature set point.



Left Hand Side Buttons

The buttons located on the side left hand side give the installer access to advanced commissioning functions. The Menu button is located above the Enter Button. Standard symbols depict Menu and Enter. Each press of the Menu buttons cycles through each option, the up and down buttons adjust the value and the enter button writes the value to memory. The CO2 flush mode can be overridden to revert to temperature control mode by pressing and holding the enter button until the thermostat buzzes.



TEMPERATURE DISPLAY

The room temperature (default) or setpoint value will be displayed during normal temperature control mode.

FUNCTIONAL EDITING OPTIONS

The following temperature display options are available.

1. **Room Temperature Display:** By default Set point Display is deactivated and room temperature is displayed.
2. **Set point Display:** When activated Set point is displayed instead of room temperature.
3. **Edit Set point Disable:** When activated, the user is prevented from editing set point.
4. **Setup Menu Enabled:** When activated, the user has access to the Setup Menu.

CO2 DISPLAY

The CO2 value will be displayed during the CO2 flush mode. Once the normal CO2 value is reached, the display will reflect that the diffuser has returned to temperature control mode.

TEMPERATURE SENSING ACCURACY

The Rickard MLM Wall Thermostat has a built in sensing port designed to accurately sample room temperature.

NOTE: Consider the effect of a hot or cold wall on the Wall Thermostat's sensing accuracy. External conditions can affect internal wall temperatures to such a degree that the Wall Thermostat's sensing ability is also affected. Mount the Wall Thermostat on an opposite or adjacent wall if necessary.

CO2 SENSING ACCURACY

The Rickard MLM Wall Thermostat has perforations in the face designed to accurately sample CO2.

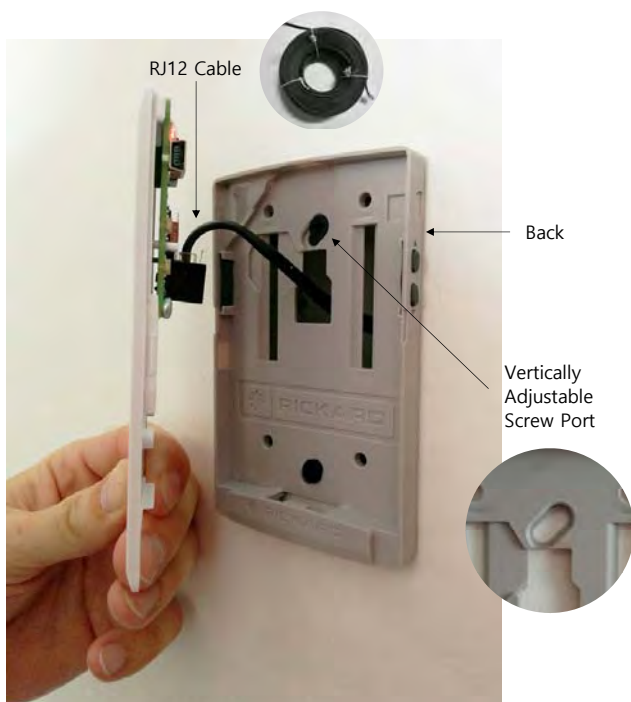
NOTE: Consider the effect of the CO2 thermostats location on sensing. The sensor should be positioned so that it senses a representative sample of room air.

COMPATIBILITY

Compatible with MLM or ML Controls provided each diffusers controller is loaded with CO2 sense firmware. Install the latest MLM application from the support section of the Rickard website to ensure you are prompted install the correct firmware.

INSTALLATION

The Rickard MLM Wall CO2 Thermostat is simple to install. It has been designed to be fitted to a standard 2 x 4 draw box or dry wall partitioning. To attach to a draw box use the 2 machine screws supplied. The diagonal slots allow horizontal and vertical alignment. Four additional round holes can be used for dry wall partitioning attachment. The Thermostat comes with a 8 meter RJ12 cable for connection to a slave diffuser.



APPLICATION

The Rickard MLM Rickard Wall Thermostat;

- Accurately senses and sets room temperature.
- Accurately senses the CO2 ppm value. The threshold and normal setpoint is set using the MLM application.
- Converts any Slave diffuser into a Master so that it can control a zone of up to 15 diffusers.
- Compatible with MLM and MLC systems.
- Accesses and adjusts advanced commissioning settings.

SELECTION

Used when floor layout plans are less likely to change and sensing accuracy is a priority.

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CO2 SENSING ACCURACY

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CO2 SENSING CALIBRATION

The CO2 sensor has a built in calibration period to ensure the unit is measuring accurately. In order to calibrate accurately, power to the unit should not be interrupted for a 2 week period. Once completed, it is not necessary to keep the unit permanently powered to maintain calibration. The system can be shutdown daily provided the unit is powered for an additional hour outside of the normal occupancy of the building.

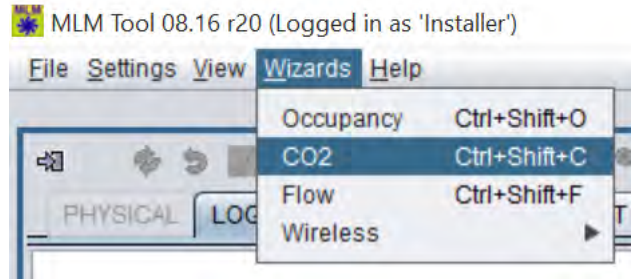
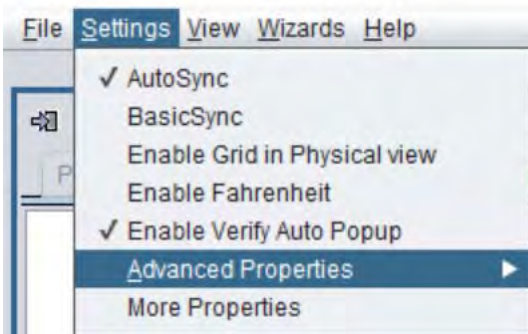


SETUP

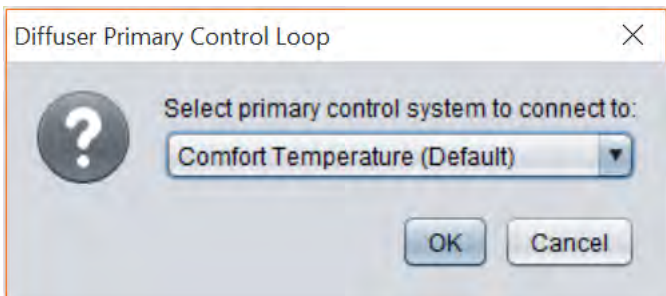
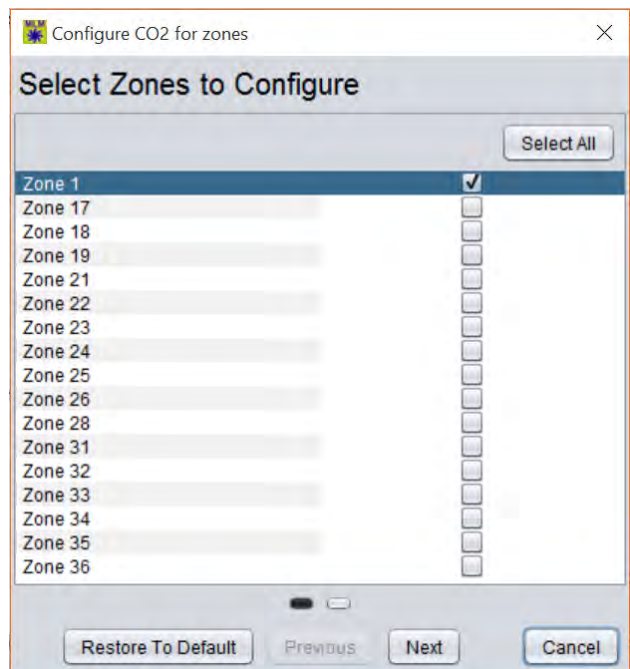
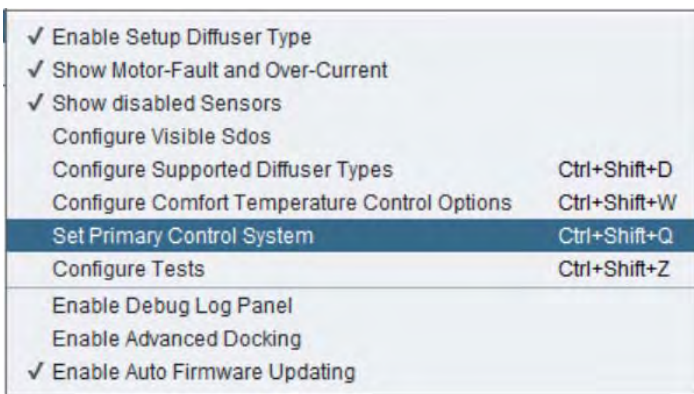
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WIZARD SETUP INSTRUCTIONS

Set the Primary Control System to Comfort Temperature (on by default).



Select the Zones to Configure, enable CO2 control and set the high and low CO2 threshold. The high threshold sets the maximum CO2 ppm value (1200ppm default) and the low threshold sets the CO2 value (800ppm default) at which temperature control is reinstated. Click Apply and the all the zones selected will be activated with the thresholds selected.



Please use the latest MLM software tool available from the Rickard support section of the website, this will ensure the latest wall thermostat & diffuser controller firmware is loaded and the latest wizard is available in the wizard menu.

Select CO2 from the wizard menu and follow the wizard instructions.

