



Atherion ATH74-526.2 pCO5+ Controller and pGD1 Display Module User Guide

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Atherion ATH74-526.2 pCO5+ Controller and pGD1 Display Module



pCO5+ Controller



pGD1 Display Module

Controls System Quickstart Guide

WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death, and could cause exposure to substances which have been determined by various state agencies to cause cancer, birth defects or other reproductive harm. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

IMPORTANT







These instructions must also be used in conjunction with the Installation and Service Manual and the Controls Manual that shipped with the model MPR unit, in addition to any other accompanying component supplier literature.

This guide is designed to walk through the basics of establishing unit setpoints and scheduling for the unit using the integrated keypad and LCD screen on the unit controller or pGD1 display module. All settings can be made directly on the unit controller, which features an integrated keypad and LCD screen. For cases where remote access is preferred or the unit controller is difficult to reach when the unit is mounted on taller roof curbs or stands, the pGD1 handheld controller is an excellent alternative that has the same functionality as the unit controller keypad and LCD screen while allowing remote or more convenient access. Every unit is designed for either standalone or networked operation. For units communicating on a BMS, the guide will also explain how to adjust your unit's device instance to allow proper communication.

Begin

1. Install the unit in the desired location in accordance with the Installation and Maintenance Manual that shipped with the unit. Note: Controller will not be powered until unit has appropriate electrical connections and disconnect switch in "ON" position.
2. If the display module is not unit mounted, connect the pGD1 handheld module using RJ-12 communication cable provided in port J10 as shown on unit mounted wiring diagram.

Navigating the Display Module Screen

Controller Buttons	Function	Description	Controller Buttons	Function	Description
	ALARM	When one or more alarms are active the ALARM button will blink/flash red. Pressing the ALARM button once will indicate information regarding any active alarms. Pressing the ALARM button twice will reset any active manual-reset alarms.		UP	Pressing the UP button can either: Scroll through the various display screens, provided the cursor is in the top left position. Increase the value of a setpoint adjustment.
	PRG	Pressing the PRG button will select the main navigation menu.		ENTER	Pressing the ENTER button will confirm any setpoint adjustments and move the cursor to the next available setpoint.
	ESC	Pressing the ESC button will return the user to the main display screen showing unit status.		DOWN	Pressing the DOWN button can either: Scroll through the various display screens, provided the cursor is in the top left position. Decrease the value of a setpoint adjustment.

Main Screen and System Status

1. The main screen (shown at right) is the default navigation page, and can always be recalled by pressing . This may need to be pressed more than once depending on which menu is active.
2. By pressing you are able to scroll through the display screens which provide information about the current system operation (examples include temperatures, output status, and space demand).



Turning Unit On / Off

1. Enter the main menu by pressing and scroll down to line 'A. On/Off Unit' and press .
2. Press to move cursor, to 'Power By Display' line and the or arrow to change the value between 'ON' and 'OFF'.
This parameter must be 'ON' for unit to have any functionality (shown at right).

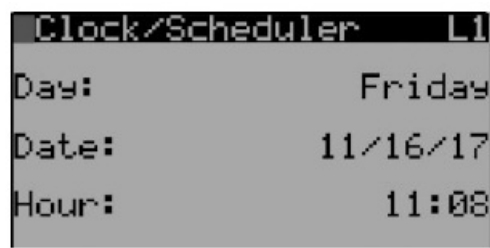


Schedule

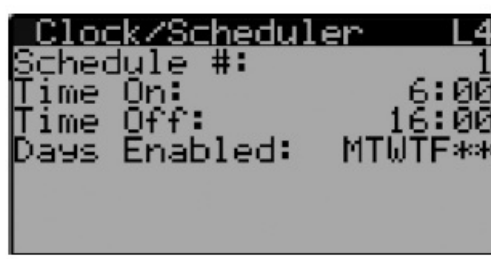
Customizing the 7-Day Schedule

1. For units running without BMS communication, the controller has a preset 7-day schedule defined by the internal timeclock. The unit will run in occupied mode from 6:00am to 4:00 pm
2. Monday through Friday, with no holidays.

3. Enter the main menu by pressing and scrolling down to line 'C. Clock/Scheduler' (shown at right) and press.
4. The first screen displays the current date and time. If this is not correct press to highlight the field that needs to be changed. Use the or arrows to adjust the number as needed.
5. Press to move through adjustable setpoints until the cursor is at the upper left corner of the screen. Use the arrow to scroll to the next page.



6. Select the amount of schedules desired by pressing to highlight the 'Number of Schedules' field and adjust the number. Press until cursor is at the upper left corner of the screen. Use the arrow to scroll to the next page.
7. The screen to the right will be the first programmable schedule.
8. Highlight the fields and adjust as needed to schedule the time and days of desired unit operation. To move to the next time period, highlight the 'Schedule #' field and adjust this number by pressing.



Customizing Holiday Schedules

1. Scroll to the 'Holidays' screen in the 'Clock/Scheduler' menu. Use the or arrows to adjust the number of holidays as needed up to 16.
2. to move the cursor to each date range and use the or arrows to adjust the number as needed. If not all four holiday ranges are required, the unused ranges can be left as '0/0-0/0'.

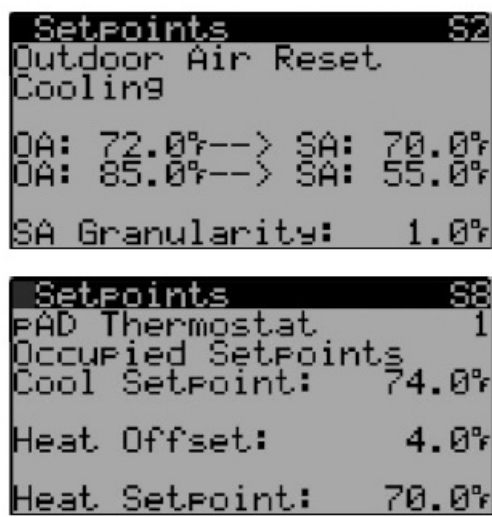
Changing Setpoints

1. **Enter the main menu by pressing and scroll down to line B. Setpoint and press .**
2. Occupied Setpoints without Space pAD
 1. Press to highlight 'Neutral Air'. Use the or arrows to adjust the setting as needed. This setting will reflect the temperature of the Supply Air entering the space.
3. Occupied Setpoints with Space pAD
 1. Press until cursor is at the upper left corner of the screen. Use the arrow to scroll to the 'pAD Thermostat' page.
 2. Press o highlight the 'Temperature'. Use the or arrows to adjust the setting as needed. This setting will reflect the space cooling setpoint.

The space heating setpoint is determined by a default heating/cooling band of 4°F. (For example, if the temperature is set at 74°F, the heating setpoint will automatically be set to 70°F.) Refer to the Controls Manual that shipped with the unit for additional adjustments.
4. Unoccupied Setpoints (requires Space pAD)

1. Press until the cursor is at the upper left corner of the screen. Use the arrow to scroll to the 'pAD Thermostat' page.
 2. Press to highlight 'Unoccupied Cool'. Use the or arrows to adjust the setting as needed.
 3. Press to highlight 'Unoccupied Heat'. Use the or arrows to adjust the setting as needed.
5. Dehumidification Setpoints, Dewpoint & Space pAD
1. press until cursor is at the upper left corner of the screen. Use the arrow to scroll to the 'DeHum SetpointDewpt' page, for dewpoint dehumidification control.
 2. press to highlight 'OA Dewpoint' under Occupied. Use the or arrows to adjust the setting as needed.
 3. press to highlight 'Space Dewpoint' under Unoccupied. Use the or arrows to adjust the setting as needed (only applicable with Space pAD).
 4. Press until cursor is at the upper left corner of the screen. Use the arrow to scroll to the 'DeHum Setpoint pAD' page, Space dehumidification control requires Space pAD.
 5. press to highlight 'Space Humidity' under Occupied. Use the or arrows to adjust the setting as needed.
 6. press to highlight 'Space Humidity' under Unoccupied. Use the or arrows to adjust the setting as needed

Note: The occupied and unoccupied settings can be changed from the Space pAD as well.



Service

1. Enter the main menu by pressing and scroll down to line 'G. Service' and press . This menu allows access to several parameters for advanced setup or control. This includes BMS Setup, Control Settings such as temperature lockouts or stage delays, and manual control of controller inputs/outputs.
2. Refer to the Controls Manual that shipped with the unit for additional information.

BMS Setup

1. Units can utilize one of three different BMS system protocols; LonWorks® FTT-10, BACnet® MS/TP, or BACnet® TCP/IP. Please refer to both the Network Interface Card Instruction Manual and Controls Manual that shipped with the unit for additional information.

Advanced Information

1. The manufacturer menu provides access to parameters not typically required to be changed in the field. These


parameters include unit configuration, controller input/output configuration, and reboot sequences. Please contact Technical Service for assistance with this section if required.

Viewing / Clearing Alarms

1. If the unit is sending an alarm signal, the alarm icon on the display module will flash continuously:
 1. Press to display the active system alarms. If there are multiple alarms, they may be viewed by pressing the or arrows.
 2. Details of the unit's running conditions when the alarm occurred may be viewed by pressing
 3. Pressing and holding the button will clear the flashing icon and all active alarms, and indicate there are no active alarms in the system.
 4. The alarm log can be viewed by pressing . Press to return to the main screen. If an alarm is persisting, the alarm light will begin to flash again.

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Documents / Resources

	Atherion ATH74-526.2 pCO5+ Controller and pGD1 Display Module [pdf] User Guide ATH74-526.2, pCO5 Controller and pGD1 Display Module
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References

- [Modine HVAC - Find Your Comfort Level](#)