



X-Gen Aprilaire Scheduling Module Module Application Guide






Module Functionality

This module has been designed specifically for use with X-generation processors and Enerzone-Aprilaire Thermostats. The module emulates the familiar 5 day-2 day scheduling thermostats that consumers have used in the past. Each zone can have 6 distinct time and temperature settings. For the weekday these are referred to as Wake, Work, Home, Sleep. For the Weekend the two settings are referred to as Wake and Sleep. All of the settings are stored in NVRAM and therefore will be preserved on reboot or reloading of the program.

Module Demo Program Description

The demo program "XGEN Aprilaire Test Program.smw" has been provided to demonstrate how a programmer would deploy a 4 zone system on a CNMSX-PRO with a TPS-4500. Load the project "Aprilaire Xgen Scheduling TPS4500" into a TPS-4500 at Net ID 03. Then load the program into the CNMSX-PRO. The Aprilaire 485-232 adapter should be connected to COMA.

For this program we have created fictitious names for the 4 zones. The opening page of the panel has the 4 zones available as selections. Pressing one of the zones will flip you to the controls page. Note that a 12" panel or larger is required to reduce the amount of page flipping on the end users part to make adjustments to one setting.

| Compatibility | | | Processor Requirements | |
|--|--|---|---|--|
|  2-Series Compatible |  CNMSX Compatible |  NOT System Builder Compatible |  Ethernet NOT NEEDED |  Compact Flash NOT NEEDED |

Module Use

The current zone name is listed above the text field "WEEKDAY". Select one of the "modes" on the left of the panel such as WAKE. Now on the right press TODAY. This will seed today's date and time for the event scheduling porting of the module. Next press REPEAT up and down until the repeat count display reads "Repeat every 1 (days)". Then use the HOURS and MINUTES buttons to select the time at which the WAKE event needs to occur. The "Scheduling Messages" window will display error messages and the last event that was sent with a time stamp. Note that the events are numbered 1-6. Now below you can type in the tow digit temperature and select whether the temperature should be sent to the stat as a cool setpoint or a heat setpoint.

Repeat the above for the other 5 modes and then repeat the whole process for the other 3 zones. Once all of these settings have been initialized they will be stored in NVRAM and will be recalled when you reselect the zone.

Also note that once an event is triggered the "Next Event Time" will display the next time and date that the selected mode will be triggered. For trouble shooting purposes we have included the TODAY button for the programmer. You can then simply read the "Next Event Time" and use F6 in Viewport to trick the module into running a particular event. Once the module is initialized you may opt to remove the REPEAT and TODAY buttons to reduce confusion on the end users part.

Support

This module is supported by ControlWorks Consulting, LLC. Should you need support for this module please email support@controlworks.com or call us at 440-449-1100. ControlWorks normal office hours are 9 AM to 5 PM Eastern, Monday through Friday, excluding holidays.

Before calling for support, please ensure that you have loaded and tested operation using the included demonstration program and touchpanel(s) to ensure that you understand the correct operation of the module. It may be difficult for ControlWorks to provide support until the demonstration program is loaded.

Updates, when available, are automatically distributed via Email notification to the address entered when the module was purchased. In addition, updates may be obtained using your username and password at <http://www.thecontrolworks.com/customerlogin.aspx>.

ControlWorks Consulting, LLC Module License Agreement

Definitions:

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We provide limited levels of technical support only for the most recent version of the Module as determined by Us. We do not provide support for previous version of the module, modifications to the module not made by Us, to persons who have not purchased the module from Us. In addition, we may decline to provide support if the Demo Program has not been utilized. We may withdraw a module from sale and discontinue providing support at any time and for any reason, including, for example, if the equipment for which the Module is written is discontinued or substantially modified. The remainder of your rights and obligations pursuant to this license will not be affected should ControlWorks discontinue support for a module.

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