CONTROLLER INTEGRATIONS

CHRYSTAL CPC401

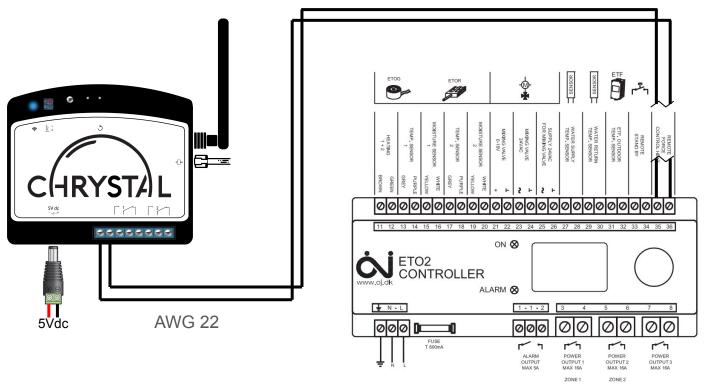


Primary Controller Configuration

- The CHRYSTAL controller can be installed as a standalone device or as an accessory controller to an existing or primary system to boost it's performance or reduce operating costs.
- In the case of CHRYSTAL being installed as an accessory controller, it sends a dry contact signal to the primary controller just as a snow detection command. This command can be in parallel to local sensors or can replace them entirely.
- In the event of such installations, it is prudent and sometimes essential to reconfigure the primary controller settings.
- If the user decided to subscribe to the preheating monitoring plan on myCHRYSTAL, it is recommended to reduce or eliminate the afterrun period on the primary controller.
- It's important to note that the state of the device shown on the myCHRYSTAL app is the state of the CPC401 Controller and not the state of the primary controller. Ex: If the local sensor detects snow, but CHRYSTAL did not send a command the app will show the system in standby state and not in heating state.



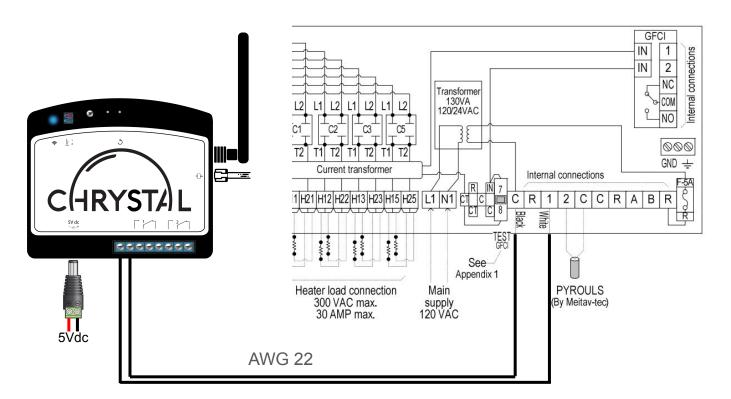
CPC401 Integration with - **OJ ET02**



Note: In this configuration when CHRYSTAL stops it's command, it activates the after run time configured in the ETO2 controller, therefore we recommend reducing the melt time to a minimum when a Preheating monitoring plan is selected



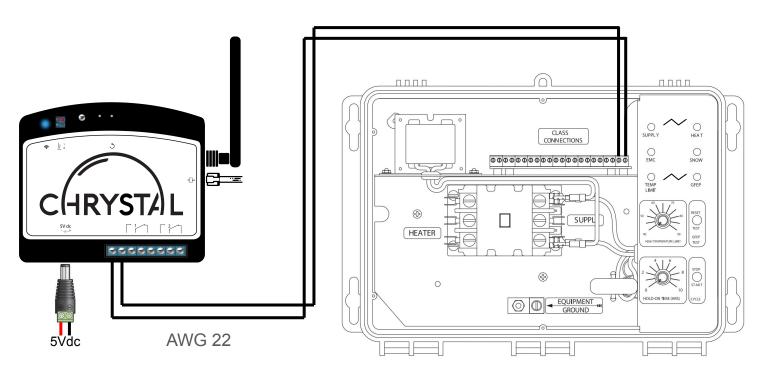
CPC401 Integration with - Meitavtech Pyrobox



Note: In this configuration when CHRYSTAL stops it's command, it activates the melt time configured in the Meitavtech controller, therefore we recommend reducing the melt time to a minimum when a Preheating monitoring plan is selected



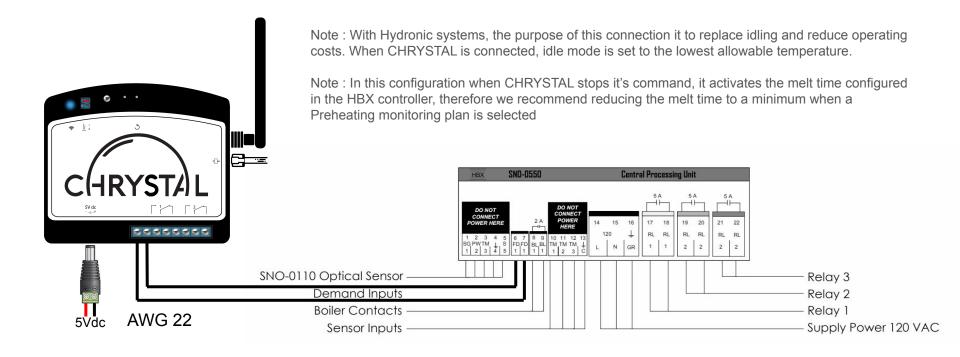
CPC401 Integration with - ETI APS-3C/4C



Note: In this configuration when CHRYSTAL stops it's command, it activates the melt time configured in the APS controller, therefore we recommend reducing the melt time to a minimum when a Preheating monitoring plan is selected

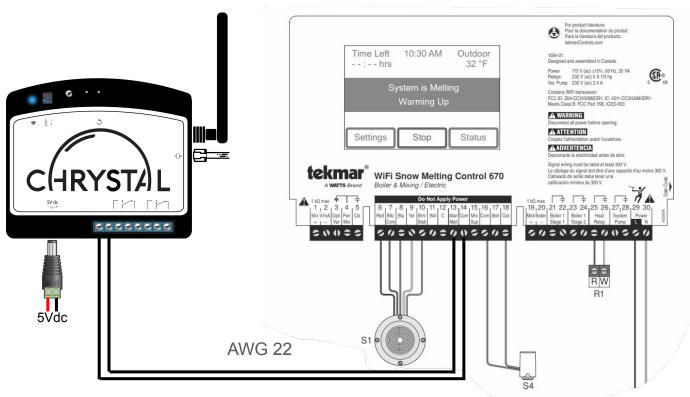


CPC401 Integration with - HBX SNO-550





CPC401 Integration with - **Tekmar 670**



Note: With Hydronic systems, the purpose of this connection it to replace idling and reduce operating costs. When CHRYSTAL is connected, idle mode is set to the lowest allowable temperature.

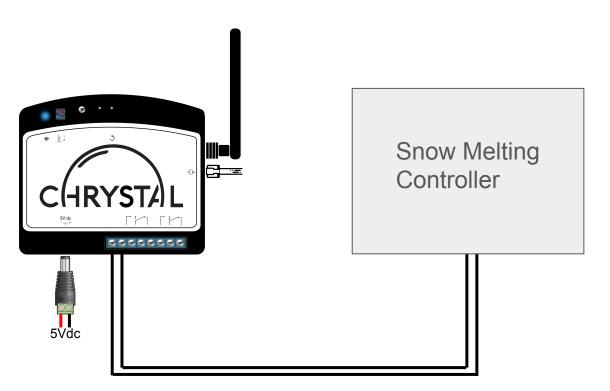
Note: As opposed to the Storm feature inside the Tekmar controller which preheats for a predefined period, CHRYSTAL's algorithm adapts the preheating time based on the outdoor temperature and the upcoming snow event.

Note: In this configuration when CHRYSTAL sends a command, it activates the manual melt time configured in the tekmar controller.

CONTROLLER INTEGRATIONS

CPC401-24-1

CPC401 Integration with - Other



If the primary controller receives commands by means of a dry contact then Chrystal will be compatible.

If you are working with a different snow melting controller then mentioned in the list above and unsure if it is compatible with the CPC401 controller, please send your request to support@mychrystal.com

