



1. DEMAND OUTPUTS

1,2: Dry contact 24VAC max
3,4: Dry contact 24VAC max

2. MODULATING OUTPUT

5,6: For modulating boiler or mixing device 0-10V DC output

3. DEMAND INPUTS

7,8: IDLE SLAB DEMAND INPUT Apply a snow melt demand from a dry contact to initiate an Idle demand.

9,10: MELT SLAB DEMAND INPUT Apply a snow melt demand from a dry contact to initiate a melt demand.

4. SENSOR INPUTS

11, 13: System Supply Sensor – Brass strap on sensor, to be installed on the supply to the snow melt manifold

12, 13: Return Sensor – Brass strap on sensor, to be installed on the return to the snow melt manifold.

15, 16: Outdoor temperature.

5. SNOWMELT OPTICAL SENSOR

17, 18, 19, 20, 21: Snow Melt Sensor: Green (17), Red (18), White (19), Black (20), Shield (21)

6. BOILER CONTACT

1, 2: Boiler Contact: Boiler enable contact

3,4: Non-Applicable: This contact does not have any functionality and may be used in a future upgrade. Do not install anything to this contact.

6. AUXILIARY OUTPUTS

5, 6: Aux 1 - Can be used as a system pump, Floating action valve up, floating action valve down, pump test, App

7, 8: Aux 2 - Can be used as an Injection pump, system pump, Floating action valve up, floating action valve down, pump test, App

9, 10: Aux 3 - Can be used as a system pump, Floating action valve up, floating action valve down, pump test, App

7. INPUT POWER

11, 12, 13: This input is to power the SNO-0600. 0.25 Amps at 120 VAC is required to power this device



SensorLinx™ Mobile App

The SensorLinx™ mobile app is available for Apple iOS (APP Store) and Android® devices (Google Play). The mobile app allows for remote monitoring and control for HBX Controls devices.

Now available on the [Apple App Store](#) and [Google Play](#)



HAVING TROUBLE CONNECTING?



WI-FI

Devices must be connected to a 2.4Ghz network



NETWORKING

Verify that outgoing port 1700 is not blocked on the network or router

ISSUE	POSSIBLE CAUSES & RESOLUTIONS
Cracked Sensor	<ul style="list-style-type: none"> Improper drainage (see pg.6 SNO-0110 manual) Improper Installation – too much tension on screw tightening, hammering sensor into socket Resolution – Replace Sensor
Not Melting Any Snow	<ul style="list-style-type: none"> Sensor not connected (supply, return, outdoor) Damaged Sensor: check sensor for cracks or deformations Incorrect settings: IDLE temperature is set incorrectly, MELT time is set incorrectly, one or design temperatures set incorrectly Check if PERMENANT STANDBY/IDLE setting is OFF Incorrect weather forecasting settings Improper wiring Improper SNO-0110 sensor location Check WWSD or CWSD Settings
Residual Snow is Present After Demand Is Not Present	<ul style="list-style-type: none"> Max System Temperature is too low and WWSD is set too high MELT TIME is set too low
Slab Temperature Error	<ul style="list-style-type: none"> Incorrect wiring (Shield wire not connected) SNO-0110 (Heater) has not reached operating temperature. Wait at least 1 hour after installation Sensor location in slab setup is set incorrectly. Damaged sensor: check for cracks or deformations
Doesn't Detect Snow	<ul style="list-style-type: none"> Damaged sensor: check for cracks or deformations Improper wiring. see SNO-0110 troubleshooting section in manual. Sensor location in slab setup is set incorrectly. Snow rate setup is set too high. No demand is present. WWSD is set too low. CWSD is set too high.
Control Screen Is Displaying "Control is Bootloading"	<ul style="list-style-type: none"> Do not power down the control. This screen will disappear after 15-30 minutes.
Error Showing On Screen	<ul style="list-style-type: none"> Sensor is not installed. Damaged Sensor: check for cracks or deformations (Slab temperature) Slab setup is incorrect.
Injection Pump Not Turning On	<ul style="list-style-type: none"> Check wiring Make sure mixing is set to injection in PUMP SETUP

ISSUE	POSSIBLE CAUSES & RESOLUTIONS
Buildup Of Snow To Start MELT	<ul style="list-style-type: none"> Slab Snow Rate setup is too high Delta T is set too low
Mixing Valve Not Turning On	<ul style="list-style-type: none"> Check wiring Make sure mixing is set to Floating Up and/or Floating Down in PUMP SETUP
System temperature fluctuating	<ul style="list-style-type: none"> Check outdoor reset values
Snow Melt Is On When No Snow Present	<ul style="list-style-type: none"> Damaged sensor: check for cracks or deformations Check SNO-0110 troubleshooting manual Check DEMAND SETUP settings
Snow Melt Not Automatically Starting	<ul style="list-style-type: none"> No Demand present Check PERMENANT STANDBY/IDLE is set to OFF Check Snow Rate settings Check WWSD/CWSD temperatures Check wiring
System Pump Not turning On	<ul style="list-style-type: none"> Check wiring No demand present Make sure System pump is set in PUMP SETUP
Boiler is Not Turning On	<ul style="list-style-type: none"> No Demand present Check wiring Check WWSD/CWSD temperatures
Slab Temperature Changes Drastically When It Comes In Or Out of WWSD/CWSD	<ul style="list-style-type: none"> The optical sensor has a built in heater and when it is installed in the slab, without the Aux. slab sensor the control will minus off approximately 40F/22C off the actual slab temp to accommodate for the internal heater that has now started up. This heater can take up to 1 hour to reach it's setpoint, thus your slab will appear that it is much colder when it first turns on, the opposite is true when it goes into WWSD or CWSD the slab temp will jump by 40F/22C as the control removes the adjustment, and the heater will now slowly cool down which could take up to 1 hour.

Need Help?

Call Tech Support Toll Free:
1 (855) 410-2341
support@hbxcontrols.com



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