

CS 425RC

Solid De-icer Controller Operator Manual



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1 CS-425RC Front Face Layout



2 CS-425RC Dial and Button Functions

On-Off Switch

Powers up the controller.

Spinner–Conveyor

Controls the output of the Auger/Conveyor and spinner(s). These spinner and conveyor dials are also used for the selection of the parameters while in the programming mode.

Blast Mode

Increases the spread rate for heavy duty application needs. Blast is activated by pressing the conveyor dial.

Pause Mode

Used to stop the spinner/conveyor while spreading. Pause is activated by pressing the Spinner dial.

Stationary Unload

To unload remaining material after completion of the spreading operation, activate by pressing both the conveyor and the spinner dials simultaneously. You may increase the conveyor speed by setting the conveyor dial to a higher number.

Tactile Buttons

These up and down select buttons are used in parameter adjustment and some operator functions. Push the UP button to see actual conveyor rate, and press the DOWN button for the conveyor set-point. The actual rate will show the conveyor fluctuations, while the set-point will display the dial setting in lb/mile or kg/km.

Optional Reverse Function

To reverse the auger/conveyor while in the operational mode, press both Tactile Select keys at the same time. Optional hydraulic function.

Programming Key

A programming key is required to set the controller to avoid unauthorized access.

Optional Pause/Blast Remote Connection

A remote pause/blast activation switch can be connected at the rear of the controller.

Proportional Joystick

To activate hydraulic functions (i.e. plow lower/left, hoist raise, etc.).

Deadman Button

A momentary push button for enabling the joystick outputs.

Joystick Mode Switch

A rocker to change between plow and hoist mode (optional).

3 Operating Instructions

1. Turn ON the controller.
 2. Set the desired spinner speed.
 3. Set the desired conveyor speed/spread rate.
 4. Press the Spinner Dial to place the spreader in the PAUSE mode.
 5. Drive to the start of your spreading route.
 6. Press the Spinner Dial to start the spreading operation.
 7. If Blast is desired press the Conveyor Dial.
 8. If no material is desired such as during a SPOTTING operation, press the Spinner Dial to start and stop the system.
 9. When you reach the end of the spread route or you run out of material, press the Spinner Dial to place the system in the Pause mode and drive back to the yard.
- Select the desired joystick mode with the rocker switch
 - Press the button on top of the stick and push it to activate a function

Note: A small joystick movement will activate the function slowly and full movement will be quicker.

4 Error Messages

The error message will be displayed on the screen for a few seconds and will automatically disappear without operator input.

- Under Application – The controller has increased the conveyor speed to maximum and is still unable to deliver the desired amount of material. Possible causes: Low engine RPM, Hydraulic Pump wear, excessive vehicle speed, inaccurate calibration data.
- Set Dials to zero – This prevents accidental start up of the system once the controller is powered up. The operator needs to set all dials to zero before turning on the system.
- Blast too long – This indicates that blast has exceeded its allowable blast duration.
- Bad Potentiometer – The conveyor or spinner dials are malfunctioning.
- PWM output error – There is a cable break, a solenoid is disconnected or defective.
- No conveyor feedback – There is no pulse signal being received from the conveyor motor. Possibly a defective sensor or cable.
- No ground speed – There is no pulse signal being received from the vehicle speed sensor. Possibly a defective sensor or cable.

Notes: