Rexroth
Bosch Group

CS 430RC

Solid De-icer Controller Operator Manual

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1 CS-430RC Front Face Layout

2 CS-430RC Dial and Button Functions

On-Off Switch
Powers up the controller.

Spinner – Auger/Conveyor Dials – Liquid Dials
Control the output of the Auger/Conveyor and spinner(s) and liquid system.

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 for controller set-up.

Optional Remote Pause/Blast Function
An optional remote pause/blast activation switch can be connected at the rear of the controller.

3 Operating Instructions

1. Turn ON the controller.
2. Set the desired spinner speed.
3. Set the desired conveyor speed/spread rate.
4. Set the desired liquid rate.
5. Press the Spinner Dial to place the spreader in the PAUSE mode.
6. Drive to the start of your spreading route.
7. Press the Spinner Dial to start the spreading operation.
8. If Blast is desired press the Conveyor Dial.
9. If no material is desired such as during a SPOTTING operation, press the Spinner Dial to start and stop the system.
10. 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.

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.
- Turn off Outputs – 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.
- Under Application Liquid – The controller is not delivering the desired amount of liquid. Possible causes: Low engine RPM, Hydraulic Pump wear, excessive vehicle speed, inaccurate calibration data.
- No conveyor feedback – There is no pulse signal being received from the conveyor motor. Possibly a defective sensor or cable.
- No liquid feedback – There is no pulse signal being received from the liquid sensor. 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: