

Compu-Spread

CS 630 Solid & Liquid Spreader Controller



Features

- 5.5" organic light emitting diode (OLED) display
- On-screen display of storm and season totals
- 3 frequency inputs (ground speed, conveyor, liquid)
- 3 proportional, current compensated PWM outputs (programmable dither frequency) for spinner, conveyor, liquid)
- 2 digital outputs (reverse, air gate, GS12V)
- USB key or password-protected calibration value
- Operating parameters and event data can be retrieved by an USB memory stick
- Automatic nulling and material calibration (with Closed Loop version only)
- Remote Pause and Blast
- Adjustable Blast setting
- Solenoid and cable failure detection
- Firmware upgradable via USB

Three function programmable controller, available in Closed or Open Loop mode, for the controlled application of granular solids and liquids in snow and ice control.

The CS-630 controller is designed for three axis spreader applications, with open loop control of one axis and open or closed loop regulation of the others. It has a large high contrast solid state OLED display. Three heavily detented knobs are for the Conveyor, Spinner and Liquid control functions, each with 9 settings. The push buttons integral to the control knobs are for Blast, Pause and Stationary Unload functions. 5 tactile buttons allows for easy navigation in setup mode. Remote Pause and Blast functions are also possible with the controller, accessible through a detachable cable assembly.

System setup and calibrations are easily accomplished with on screen text defined parameters, and separate selection buttons. Vehicle speed and material calibration are easily setup with on screen prompts. Error messages are text defined, and are augmented by an audible alarm. The USB port provides controlled access to event logging, as well as any firmware upgrades. A serial port for diagnostics and AVL interface is standard.

The CS-630 is built around a high performance 32 bit processor with many advanced features. All components, connectors and operating devices are industry proven, and fitted into a rugged extrusion made to withstand the rigors - and temperature - of winter.

The CS-630 is a new addition to the Compu-Spread family of snow and ice control products from Bosch Rexroth. It is ideally suited for the control of the broad range of Rexroth hydraulic valves and modules, which find broad and increasing usage in these demanding applications.

Technical Data CS-630

General

Enclosure Material	Extruded aluminum, powder coated	
Weight	1.24 kg	6.6 lb. mass
Size (excluding connectors)	221 x 128 x 60.2 mm	8.692" x 5.06" x 2.377"
Mechanical Mounting	Ram bracket, size 1½"	

Electrical & Environmental Specifications

Supply Voltage	9-32 VDC	
Outputs	Proportional outputs	3 channels
	Digital Outputs	2 channels
Inputs (All inputs protected and filtered)	Frequency Inputs	3 channels
	Switch Inputs	2 channels
	Analogue Inputs	2 channels
Interfaces	2 serial ports	
AVL interface	RS-232, Baud rate: 115200, None parity, 8 Data bit, 1 Stop bit	
Operating Temperature	-30°C to 85°C	-22°F to 185°F
Storage Temperature	-40°C to 85°C	-40°F to 185°F

Compliant Standards

Electromagnetic Compatibility	100v/m, load dump	
Immunity	RF Immunity:	ISO 11452-2, 400-1000 MHz, 80% mod.1kHz 1 GHz—2 GHz, 80% mod. 1 kHz 25v/m (Level 1 Severity)
	Conducted Immunity:	ISO 7637-2 (2004), System Pulse 1, 2a, 2b, 3b, 4
RF Emissions	CISPR 25:2002-08, 30 MHz—1 GHz, according to 72/245/EC EN 55025	
Electrostatic Discharge	EN 61000-4-2 ISO 10605, Contact +/- 8kV, air discharge +/- 15kV	
Vibration	ISO 16750-3, 10-2000Hz @ 58 m/s	
Shock	IEC 60068-2-72, 40G for 11 ms	
Moisture	DIN EN 60068-2-30Db; version 2, part 2, Hum=95% 25 to -55°C	
Salt Spray	DIN 50021-SS, 72h 35°C 5% NaCl	
Medial Resistance	ISO 16750-5, cola, coffee, paint thinner	
Enclosure Protection	IEC 60529 IP63	

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