

Compu-Spread CS 520 Solids Controller

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- **Two function programmable controller, available Manual, Closed or Open loop mode, for the controlled application of granular solids in snow and ice control.**

The CS-520 controller is designed for two axis spreader applications, with manual control of one axis (Spinner) and manual, ground speed triggered manual, open or closed loop regulation of the other. It has a large high contrast solid state OLED display. Two heavily detented knobs are for the Conveyor and Spinner functions, each with 9 settings. The push buttons integral to the control knobs are for Blast and Pause functions. Five touch pads below the display are used in the setup mode.

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

The CS-520 is built around a high performance 32 bit processor with many advanced features. All components, connectors and operating devices are industry proven, fitted into a rugged extrusion made to withstand the rigours – and temperatures – of winter.

The CS-520 complements the Compu-Spread family of snow and ice control products and solutions from Bosch Rexroth. It is ideally suited for the control of the large range of Rexroth hydraulic valves and modules, which find broad usage in these demanding applications.

Features

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

Technical Data

General	
Enclosure Material	Extruded aluminum, powder coated
Weight	2.732 lb. mass (1.24 kg)
Size (excluding connectors)	8.692" x 5.060" x 2.377" (221 x 128.5 x 60.4 mm)
Mechanical Mounting	"Ram Bracket", size 1-½"
Electrical	
Power Supply	8-32 VDC
Solenoid Voltage	12 VDC, 2 A maximum (2 x)
Electromagnetic Compatibility	100v/m load dump ISO7637-2 (2004), pulse 5
RF Immunity	ISO 11452-2 400-1000 MHz, 80% mod. 1 kHz
Conducted Immunity	ISO 7637-2 (2004) System Pulse 1, 2a, 2b, 3b, 4
RF Emissions	CISPR 25:2002-08 30 MHz-1GHz acc. to 72/245/EC EN 55025
Electrostatic Discharge	EN 6100-4-2 ISO 10605 Contact +/- 8kv, air discharge +/- 15kv
Vibration	ISO 16750-3 10-2000 Hz at 58m/s; IEC 60068-2-72 40G for 11 ms
Environmental	
Operating Temperature	-30 ... 85° C
Storage Temperature	-40 ... 85° C
UV Resistance	DIN 75220
Media Resistance	ISO 16750-5
Protection Category	IEC 60529, IP63

* The charts above are for reference and provided as general information only.

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