

Compu-Spread CS-550 Lite Solids & Liquids Spreader Controller

10.2016



- ▶ **Multi-function programmable spreader controller, available in Manual, Closed or Open Loop mode, for the controlled application of granular solids and liquids in Snow and Ice Control.**

The Rexroth CS-550 Lite controller is designed for multi-function spreader applications, the most common of which are Conveyor, Spinner and Pre-wet. 3 Boom Anti-icing, Spinner Reverse, and Air Gate functions are fully supported. Summer Mode, for various off-winter season uses, is available. All controller functions can be viewed on the 7" automotive grade display with glass touch screen. Application rates are controlled by 3 heavily detented knobs; set-up and parameterization is done with the touch screen or a computer.

Hydraulic valves and other devices are powered by the robust Rexroth BODAS Controller which is connected to the CS-550 via CANbus. In addition to its typical stand-alone functionality, the CS-550 CANbus architecture facilitates connection to the CS-150 series joystick, which allows all secondary functions to be seen on the display.

Comprehensive data logging is standard, with storage capacity of over 50,000 events. Utilizing event based data logging it records all the changes in spreading operation, spread distance and quantity, liquid and anti-icing volume,

boom on/off, blast distance and quantity as well as number of blasts, pause distance, rate change, material change, gate change and error messages.

CS-550 Lite System Features

- Full CANbus architecture
- Automotive grade devices with wide temperature range
- Remote Pause and Blast
- Auto-null, Auto-Calibration, and Auto-Catch Test
- Gate position read-back capable
- Built in ground speed simulator
- AVL interface is standard
- GPS tracking & logging ready (requires antenna)
- Supports infra-red temperature and liquid level sensors
- Wiring harnesses have integral molded diagnostic LEDs
- All sensor leads are corrosion resistant
- All valve outputs use AMP Junior Timer connectors
- Standard desktop software and pre-configured reporting formats are included

Optional

- WiFi Data Transfer (when WiFi module is built-in)
- GPS antenna with integrated receiver

Technical Data CS-550 Lite (for BODAS Controller RC series 20 details refer to Rexroth data sheet RE 95 200)

General		
Enclosure Material	Extruded aluminum, powder coated	
Weight	2.22 kg	4.85 lb. mass
Size (excluding connectors)	252.5 mm high x 184 wide, x 60.4 deep	9.942 inches x 7.230 x 2.377
Mechanical Mounting	"Ram Bracket", size 1-1/2"	
Display Screen	7" wide VGA, 800 x 480 pixels, 262,144 colours, glass/film/glass 5 wire touch screen, 7H hardness Adjustable backlight, brightness of 400 cd/m ² Maximum allowable touch screen point load: 1.47 N (0.33 lbf) with 1.6 mm (0.063") Ø stylus	
Loudspeaker	1.5 Watt amplifier with adjustable voice feedback	

Electrical & Environmental Specifications

Supply Voltage	9-32 VDC	
Outputs	Proportional outputs	4 channels for CS-550 Lite
Inputs (All inputs protected and filtered)	Frequency Inputs	2 channels for CS-550 Lite
	Switched Inputs	4 channels for CS-550 Lite
	Analogue Voltage Inputs	2 channels for CS-550 Lite
	Analogue Current Inputs	2 channels for CS-550 Lite
Interfaces	1 CAN port, CAN 2.0B, 1 serial port RS232, 2 USB ports 2.0	
GPS Tracking (when supplied)	High sensitivity -165dBm tracking; 66 acquisition/22 channel simultaneous tracking; Built-in low noise/high gain active antenna	
WiFi Data Transfer (when supplied)	802.11 g/b; Security: WEP, TKIP, WPA, AES/CCMP; Transmit Power: 15 dBm typical (both 802.11 g & b)	
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 (CS-550 and RC Controllers)

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 IEC 68, part 2, Hum=95% 25 to -55°C	
Salt Spray	DIN 50021-SS, 72h 35°C 5% NaCl	
Media Resistance	ISO 16750-5, cola, coffee, paint thinner	
Enclosure Protection	IEC 60529 IP56	

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