

# Compu-Spread CS-550

## Solids & Liquids Spreader Controller

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- ▶ **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 controller is designed for multifunction spreader applications, the most common of which are Conveyor, Spinner and Pre-wet. Automatic Closed Loop Hydraulic Gate, 3 Boom Anti-icing, Conveyor and/or Spinner Reverse, Cross Conveyor Control, Symmetry Chute Control 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 System Features

- Full CANbus architecture
- Automotive grade devices with wide temperature range
- Remote Pause and Blast
- Auto-null, Auto-Calibration, and Auto-Catch Test
- Built in ground speed simulator
- AVL interface is standard
- GPS tracking & logging ready (requires antenna)
- Supports infra-red temperature, liquid level, hydraulic pressure and hydraulic temperature 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** (for BODAS Controller RC series 20 details refer to Rexroth data sheet RE 95 200)

General		
<b>Enclosure Material</b>	Extruded aluminum, powder coated	
<b>Weight</b>	2.22 kg	4.85 lb. mass
<b>Size (excluding connectors)</b>	252.5 mm high x 184 wide, x 60.4 deep	9.942 inches x 7.230 x 2.377
<b>Mechanical Mounting</b>	"Ram Bracket", size 1-1/2"	
<b>Display Screen</b>	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 <sup>2</sup> Maximum allowable touch screen point load: 1.47 N (0.33 lbf) with 1.6 mm (0.063") Ø stylus	
<b>Loudspeaker</b>	1.5 Watt amplifier with adjustable voice feedback	

**Electrical & Environmental Specifications**

<b>Supply Voltage</b>	9-32 VDC	
<b>Outputs</b>	<b>Proportional outputs</b>	6 channels for CS-550
	<b>Digital Outputs</b>	2 channels for CS-550
<b>Inputs (All inputs protected and filtered)</b>	<b>Frequency Inputs</b>	3 channels for CS-550
	<b>Switched Inputs</b>	6 channels for CS-550
	<b>Analogue Voltage Inputs</b>	5 channels for CS-550
	<b>Analogue Current Inputs</b>	4 channels for CS-550
<b>Interfaces</b>	2 CAN ports—CAN 2.0B, 2 serial ports—RS232, 2 USB ports 2.0	
<b>GPS Tracking</b> (when supplied)	High sensitivity –165dBm tracking; 66 acquisition/22 channel simultaneous tracking; Built-in low noise/high gain active antenna	
<b>WiFi Data Transfer</b> (when supplied)	802.11 g/b; Security: WEP, TKIP, WPA, AES/CCMP; Transmit Power: 15 dBm typical (both 802.11 g & b)	
<b>Operating Temperature</b>	-30°C to 85°C	-22°F to 185°F
<b>Storage Temperature</b>	-40°C to 85°C	-40°F to 185°F

**Compliant Standards (CS-550 and RC Controllers)**

<b>Electromagnetic Compatibility</b>	100v/m, load dump	
<b>Immunity</b>	<b>RF Immunity:</b>	ISO 11452-2, 400-1000 MHz, 80% mod.1kHz 1 GHz–2 GHz, 80% mod. 1 kHz 25v/m (Level 1 Severity)
	<b>Conducted Immunity:</b>	ISO 7637-2 (2004), System Pulse 1, 2a, 2b, 3b, 4
<b>RF Emissions</b>	CISPR 25:2002-08, 30 MHz–1 GHz, according to 72/245/EC EN 55025	
<b>Electrostatic Discharge</b>	EN 61000-4-2 ISO 10605, Contact +/- 8kV, air discharge +/- 15kV	
<b>Vibration</b>	ISO 16750-3, 10-2000Hz @ 58 m/s	
<b>Shock</b>	IEC 60068-2-72, 40G for 11 ms	
<b>Moisture</b>	DIN IEC 68, part 2, Hum=95% 25 to –55°C	
<b>Salt Spray</b>	DIN 50021-SS, 72h 35°C 5% NaCl	
<b>Media Resistance</b>	ISO 16750-5, cola, coffee, paint thinner	
<b>Enclosure Protection</b>	IEC 60529 IP56	

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