

Compu-Spread CS-550/150

Solids & Liquids Spreader/Joystick Controller

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- ▶ **Multi-function programmable spreader controller for the controlled application of granular solids and liquids in Snow and Ice Control, and hydraulic control systems with 3 axis multi-mode joystick.**

CS-550 System Features

- 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 standard; GPS ready (requires antenna)
- Supports infra-red temperature, liquid level, hydraulic pressure and hydraulic temperature sensors
- Standard desktop software and pre-configured reporting formats included

CS-150 Joystick & Console Features

- Up to 4 operation modes; 8 double acting valve functions.
- Emergency raise on any number of functions, activated with one joystick button push. Spreader function pause possible when activating emergency
- On screen valve trimming and emergency allocation.
- Capable of 2 power floats; with / without proximity sensor
- Low oil and PTO control; on switch panel or joystick.
- ON-OFF diverter or double acting valve control with joystick buttons
- Multiple joystick button colours are available
- Spreader pause and blast on joystick buttons.
- Hoist limit with available override
- Double function interlock possible for added safety.
- Scraper auto-raise with transmission reverse
- Wiring harnesses have integral molded diagnostic LEDs

Optional

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

The Rexroth CS-550 controller is designed for multiple Snow & Ice spreader application modes. 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.

The full CANbus architecture facilitates connection to the CS-150 series joystick, which allows on-screen integration with mode and function display. The 3 axis non-contact joystick, with twist handle, is fitted into a slim profile console for easy installation in tight cab spaces. The console allows installation of up to 12 rocker switches for lighting, warning and valve functions.

Hydraulic valves and other devices are powered by the robust Rexroth Bodas Controller, also connected to the CS-550 via CANbus.

Technical Data (for BODAS Controller series 20 details refer to Rexroth data sheet RE 95 200, for CS-150 see installation drawing)

CS-550 General	
Enclosure Material	Extruded aluminum, powder coated
Weight	2.22 kg 4.85 lb. mass
Size	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

CS-550/150 System Electrical & Environmental Specifications		
Supply Voltage	9-32 VDC	
Outputs	Proportional outputs	6 channels for CS-550, 18 channels for CS-550/150
	Digital Outputs	2 channels for CS-550, 6 channels for CS-550/150
Inputs (All inputs protected and filtered)	Frequency Inputs	3 channels for CS-550, 5 channels for CS-550/150 (0-10k, > 1Vrms)
	Switched Inputs	6 channels for CS-550, 13 channels for CS-550/150
	Analogue Voltage Inputs	5 channels for CS-550, 20 channels for CS-550/150
	Analogue Current Inputs	4 channels for CS-550, 4 channels for CS-550/150
Interfaces	2 CAN ports, CAN 2.0B, 2 serial ports 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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