

Compu-Spread CS-150RC

Standalone Single 3-Axis Joystick Controller

10.2016



- ▶ **Single 3-axis multi-mode joystick console for manual control of multiple hydraulic actuators, as are used in Snow and Ice Control**

The Rexroth CS-150 RC joystick console is an ergonomically designed operator interface for the control of multiple hydraulic actuators, typically cylinders, on Snow and Ice Control vehicles. The full CANbus architecture facilitates connection of the console to the robust Rexroth BODAS controller, which in turn drives the system hydraulic valves and other devices.

Using the selector push buttons up to 4 control modes are possible, multiplying the number of controllable channels of the heavy duty 3-axis joystick (up/down, left/right, twist L/R). Inadvertent actuator movement is prevented by virtue of the integral dead-man switch.

The joystick is fitted into a slim profile console for easy installation in tight cab spaces. The console allows installation of up to 12 auxiliary rocker switches for lighting, warning and other valve functions.



- ▶ **CS-150 RC nulling pendant**

Hydraulic valve nulling and trimming are easily done with the joysticks and a console switch, or with the optional nulling pendant.

CS-150 Joystick & console features

- Hall effect joystick with integrated CANbus output
- Standard Scraper Auto-raise function when vehicle transmission goes into reverse
- Low Oil and Hoist Limit override are selectable
- All functions are configurable
- Remote Pause/Blast/Spinner reverse possible
- 2 power float functions are supported
- Valve trimming and nulling can also be done with a separate control box (optional), which is then set aside
- Joystick handle fitted with 6 momentary snap-action selector switches and 1 index switch (dead-man)
- Fitted with function label to indicate button names
- Light-up joystick buttons indicate function/mode selected
- Wiring harnesses have integral moulded diagnostic LEDs

Technical Data

Joystick				
Mechanical (for X, Y axes)	Break-out force:	7.7 N (1.7 lbf)	Expected life:	10 million cycles
	Operating force:	14 N (3.1 lbf)	Material:	Glass filled nylon
	Maximum applied force:	1000 N (225 lbf)	Lever action:	Spring centring
	Mechanical angle of movement	38°		
Mechanical (for Z axis)	Break-out torque:	0.6 Nm (5.31 lbf-in)	Hand mechanical angle:	42°
	Operating torque:	1.1 Nm (9.74 lbf-in)	Handle action:	spring centring
	Max. allowable torque:	24.5 Nm (216.8 lbf-in)	Expected life:	10 million cycles
Sealing (IP)	IP 65			
EMC Immunity Level (V/M)	IEC 61000-4-8: 2009			
EMC Emissions Level	IEC 61000-4-3: 2006			
ESD	IEC 61000-4-2: 2008			

CS-150RC System Electrical & Environmental Specifications

Supply Voltage	9-32 VDC		
Outputs	Proportional outputs	12 channels	
	Digital Outputs	4 channels	
Inputs (All inputs protected and filtered)	Switched Inputs	6 channels	
	Analogue Voltage Inputs	20 channels	
	Analogue Current Inputs	4 channels	
Interfaces	1 CAN port, CAN 2.0B		
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 RC Controller (for more BODAS Controller series 20 details refer to Rexroth data sheet RE 95 200)

Electromagnetic Compatibility	100v/m, load dump ISO 7637-2 (2004) pulse 5		
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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