Compu-Spread CS-150RC
Standalone Dual Joystick Controller

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

▶ **CS-150 RC nulling pendant**

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.

The two 3 axis non-contact joysticks, each with a deadman switch, are fitted into a slim profile console for easy installation in tight cab spaces. The console allows installation of up to 6 auxiliary rocker switches for lighting, warning and other valve functions.

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 joysticks with integrated CANbus output
- Joystick dead-man switch prevents inadvertent and unwanted actuator movements
- Low profile joysticks require limited movement and low operating force
- Backlit console legends for joystick identification
- Simple power float mode supported
- Dump Limit supported
- Valve trimming and nulling can be done with a separate control box (optional), which is then set aside
- Wiring harnesses have integral moulded diagnostic LEDs
- All functions are configurable
- Standard Scraper Auto-raise function when vehicle transmission goes into reverse

Technical Data

Joystick				
Mechanical (for X, Y axes)	**Break-out force:**	1.8N (0.4 lbf)	Expected life:	10 million cycles
	Operating force:	3.5N (0.75 lbf)	Material:	Glass filled nylon
	Maximum applied force:	450 N (100 lbf)	Lever action:	Spring centring
	Mechanical angle of movement	40°		
Mechanical (for Z axis)	**Break-out torque:**	0.09 Nm (0.80 lbf-in)	Hand mechanical angle:	80° (40° from centre)
	Operating torque:	0.121 Nm (1.07 lbf-in)	Handle action:	spring centring
	Max. allowable torque:	0.150 Nm (1.33 lbf-in)	Expected life:	10 million cycles
Sealing (IP)		IP 65		
EMC Immunity Level (V/M)		IEC 61000-4-3: 2006		
EMC Emissions Level		IEC 61000-4-8: 1993/A1: 2000		
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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