CS 550/150
Spreader/Joystick Controller

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Multi-function, modular spreader and hydraulic control system with 3 axis, multi mode joystick.

Features

Ability to simultaneously control spreader and joystick function:
- Full CAN-bus system
- Conveyor, Spinner, Prewet Plus
- Anti-icing, Auto Gate, Reverse, Pattern Control, Air Gate
- 4 modes, 3 axis (Up/Down,Left/Right,Twist L/R)
- 2 channel power floats swith proximity inputs
- Remote Pause/Blast/Spinner Reverse
- Auto-raise, Emergency raise
- Low oil override, and dump limit override
- Double safety lock
- Display Screen
  - Glass/film/glass 5-wire touch screen, hardness of 7H
  - 7" Wide VGA 800x480 pixels, 262144 colors
  - Adjustable backlight, brightness of 400 cd/m²
- 50,000 plus event capacity
- Easy firmware upgrade with a memory stick
- 1.5 Watt amplifier with adjustable voice feedback
- 3 detented knobs, metal housing, stainless shaft, rotation torque of 8 oz-in

- USB encrypted security key for setup and data logging
- Auto-null, Auto-Calibration, and Auto-Catch Test
- Built in ground speed simulator
- Supports infra-red temp sensors
- Supports liquid level sensor
- Supports hydraulic pressure and temp sensors
- All wiring harness have integrated molded diagnostic LEDs
- All sensor leads are corrosion resistant
- All valve outputs use AMP Junior Timer connectors

Optional

- GPS Tracking
  - High sensitivity: -165dBm tracking
  - 66 acquisition/22 channel simultaneous tracking
  - Built-in low noise, high gain active antenna

- WiFi Data Transfer
  - 802.11 g/b, 15dBm transmit power
  - Security: WEP,TKIP,WPA, WPA2, AES/CCMP

Electrical & Environmental Specifications

Supply Voltage		9-32V
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	Frequency Inputs	3 channels for CS 550, 5 channels for CS 550/150 (0-10k, > 1Vrms)
	Switch Inputs	6 channels for CS 550, 13 channels for CS 550/150
	Analog Voltage Inputs	5 channels for CS 550, 20 channels for CS 550/150
	Analog Current Inputs	4 channels for CS 550, 4 channels for CS 550/150
		All inputs protected and filtered
Interfaces		2 CAN ports, CAN 2.0B 2 Serial ports, RS232
Temperature	Operating	-30ºC to 85ºC
	Storage	-40ºC to 85ºC

Compliant Standards (CS-550 and RC Controllers)

Electromagnetic Compatibility		100v/m, load dump
Immunity	RF Immunity	ISO 11452-2 400-1000MHz, 80% mod. 1kHz 1 GHz- 2 GHz, 80% mod. 1kHz 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-1GHz acc. to 72/245/EC EN 55025
Electrostatic Discharge		EN61000-4-2 ISO 10605 Contact +/- 8kv, air discharge +/-15kv
Vibration		ISO 16750-3 10-2000Hz @ 58m/s
Shock		IEC 60068-2-72 40G for 11ms
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 and paint thinner
Enclosure Protection		IEC 60529, IP56

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