

**Features**

- Large, adjustable, bright graphics VFD display
- 4 solid material selections, with 9 application rate settings
- 4 liquid material selections, with 9 application rate settings
- 9 spinner speed settings
- Blast and Pause functions integrated into the rate knob selector for ease of use
- Stationary unload for both solid and liquid materials
- Input status indicators, 6 fixed and 2 user defined
- Modular mounting capability, compact design
- System configuration through advanced PC based software
- Parameter and Logged Data reporting through an infrared link
- Firm ware upgrade through a PC link
- Key and optional pass word protection to access system settings
- Remotely located valve driver and microcontroller for a compact design
- Microcontroller conforms to electrical and environmental test standards.

**Advanced Functions**

- Auto-nulling of proportional outputs
- Auto-calibration of both solid and liquid materials
- Gate position read back with automatic conveyor speed adjustment
- Solid material rate reduction adjustable with pre-wet
- Ability to read both pavement and ambient temperature
- Compensates for road temperature
- Adjustable dither frequency for all proportional outputs
- Screen intensity adjustable for day / night driving
- GPS interface capabilities
- Customer specific, default operating parameter settings
- 4 conveyor operating modes

**On Screen Data Display**

- Solid application rate and control mode
- Liquid application rate and control mode
- Solid material selected
- Liquid material selected
- Spinner setting
- Gate setting
- Temperature readout, pavement and ambient
- Wireless download of log data (optional)
- Three boom anti-icing configurable
- Driver I.D. feature
- Trip summary report

Microcontroller (RC-6/9) Electrical and Environmental Specifications		
<b>Spurious Interference</b>	(Motor vehicle directive 95/54/EG)	100 v/m
<b>Load Dump</b>		max. 70 v
<b>Temperature Housing</b>	Operating	-40...80 °C
	Storage	-40...105 °C
<b>Vibration Resistance</b>	Sinusoidal (IEC 60086-2-6)	10 g / 57...2000 Hz
	Random (IEC 60086-2-36)	0.05 g <sup>2</sup> / Hz; 30 min per axis
<b>Shock Resistance</b>	Transport (IEC 60068-2-27)	15g / 11ms; 3 x in each direction/axis (pos./neg.)
	Continuous (IEC 60068-2-29)	25 g / 6 ms; 1000 x in each direction/axis (pos./neg.)
<b>Resistance</b>	To moisture	95 % (+25 to +55 °C)
	To salt spray (IEC 60068-2-11)	72 h, 35 °C, 5 % NaCl
<b>Type of Protection</b>	(DIN / EN 60529) fitted with mating connector	IP 65

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Rexroth CS 440  
Solid Pre-Wet and Gate Controller

03.2012



**Four function, programmable closed loop controller with closed loop gate and data logging capabilities.**

The latest in closed loop spreader technology, the CS 440 controller incorporates a multi rate closed loop solid and liquid application selector. This latest generation of controller incorporates a large VFD graphics display screen for easy operator reference, providing full access to spreader rate and system status information at a glance.

System setup is accomplished through easy-touse advanced PC based configuration software, which can be transferred to the CS 440 controller through an infrared Palm Pilot® link. System setup can be accomplished in minutes with a conventional laptop computer, which displays all operating parameters in logical groups, and in full text format. The infra red link allows easy controller access in the field for system setup and logged data retrieval. The system can also be easily accessed on the vehicle with easy to follow on - screen instructions.

The Rexroth CS 440 controller also features auto-nulling of all proportional outputs, and auto calibration of materials. The addition of a closed loop gate function ensures maximum conveyor efficiency for any gate setting, resulting in optimum accuracy for all spread rates and ground speeds. Automatic reduction of the solid application rate is also available when using the pre-wet system, resulting in further material savings. Material compensation based on road temperature read-out has also been incorporated.

The CS 440 controller is designed on a modular platform, setting a new standard in spreader control systems.