

CS102 Combined Spreader and Liquid Controller



- ❑ **Powerful design**
... three controllers in one
Spreader, Pre-wet, De-ice
- ❑ **Full featured**
... Pass and Blast, real time data logging, RS232 port
- ❑ **Direct hydraulic drive**
... three electro-hydraulic drivers, adjustable PWM, current control
- ❑ **Flexible**
... open or closed loop automatic or manual
- ❑ **Field programmable**
... no special tools required.

The CS102 combines three controls into one. First as a standard spreader control the CS102 regulates granular products using a standard conveyor (or auger) and spinner, ground speed control in pounds per mile. Secondly, the CS102 adds a low flow liquid control in gallons per ton over the granular control for those vehicles that pre-wet the granular material as it exits the hopper. Third, the CS102 can control the larger liquid product pumps required for de-icing applications, control is in gallons per mile

Features of the CS102:

- Automatic ground speed control, calibrated in true engineering units
- Spreader control in pounds per mile, adjustable maximum feed rate 100 to 3000 lbs. per mile
- Pre-wet liquid, ratio control in gallons per ton of granular, adjustable maximum ratio 5 to 16 gal/ton
- De-ice liquid control in gallons per mile, adjustable maximum rate 10 to 500 gal/mile
- Spinner control, 4 lane width selections, detented, each individually programmable, 0 to 100%
- Open loop or closed loop servo drive for both granular and liquid.
- Operator features; Blast, Pass, eight granular products, manual mode, English or metric
- Supervisory features; Feed rate limits, manual lockout, Blast rate, material types
- Data logging; records accumulated totals for each product dispensed, ten year real time clock
- RS232 port for easy field upgrades using a laptop or data retrieval using a field printer, see FP100
- Automatic short circuit protection, built-in diagnostics for valves and sensors
- Easily programmed using the existing front panel, no special tools required, pass code protected
- Optional cable; 9-pin twist lock, split loom, 15 ft valve leg, 8 ft transmission leg, pigtail ends.
- One year warranty, FOB factory, Kent, WA. 98032

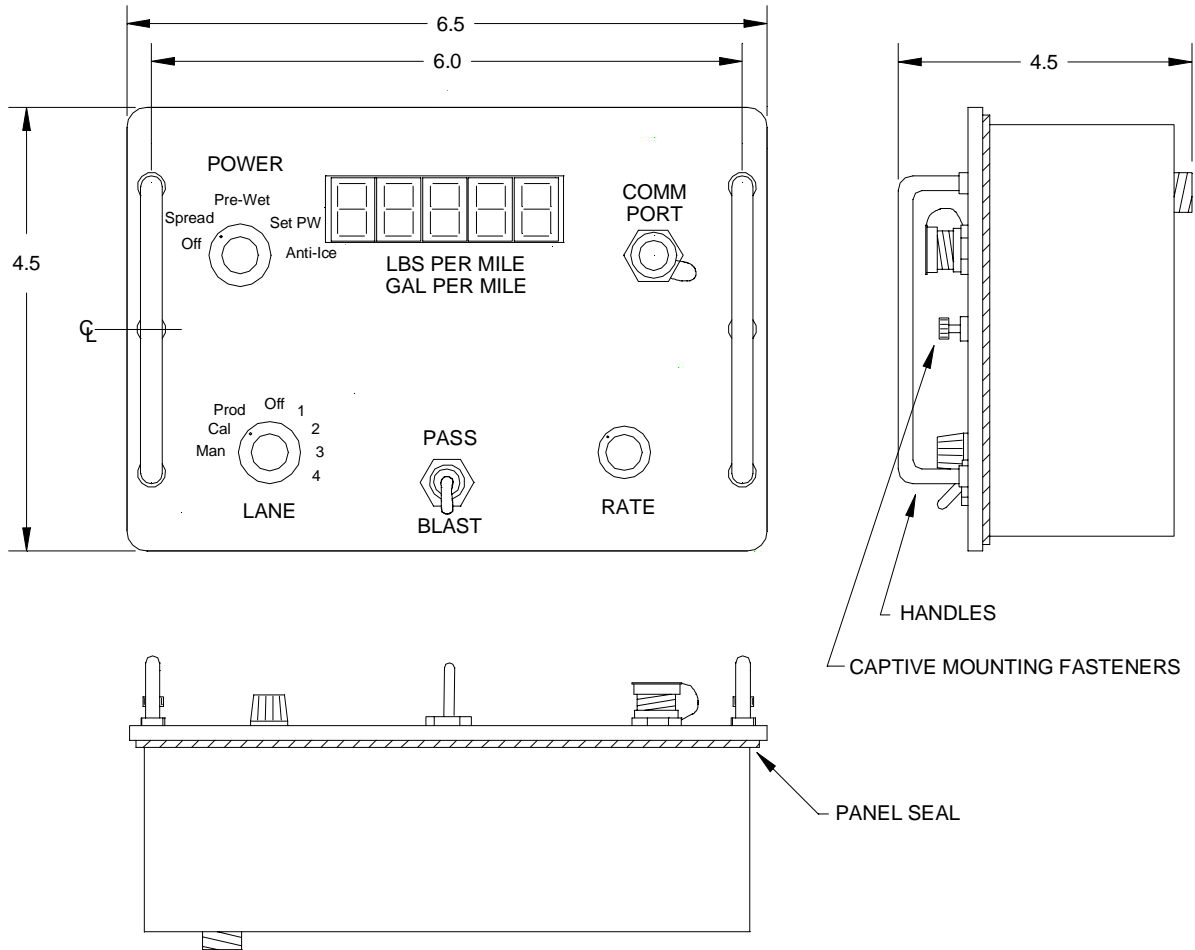
Electrical specification:

- Operating voltage: 11-16vdc, -30 to 75 deg C operation, internally fused
- Outputs: (3) current controlled PWM, high efficiency mosfet drivers, transient suppression diodes
- Inputs: (1) ac or dc type for mph, (2) current sinking for servo feedback pulse sensors
- Electrical interface: AMP CPC-9 pin connector, **Motiv** standard pinout
- Enclosure: flange mounted, painted steel, size 6.5" x 4.5" x 4.5"
- Comm. port: RS232C, 9600 baud, N-8-1; 4 wire power, ground, Rx,Tx

CS102

MECHANICAL

ALL DIMENSIONS ARE IN INCHES



FUNCTIONAL BLOCK

