

Automatic Spreader Control (AS2)

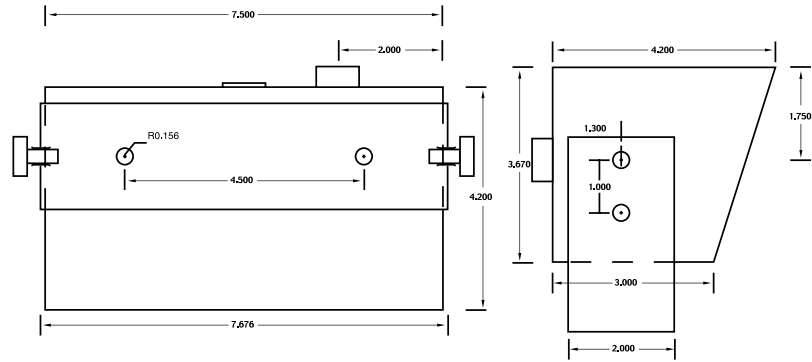
- Manual or automatic auger and spinner control
- Ground speed sensing for automatic control. The AS2 accepts most types of speedometer sensors, Hall (cable), VRM (electronic) and low voltage
- Blast push button for 100% feed rate dump with adjustable duration timer
- Zero MPH shut-off in automatic control for both spinner and auger
- Ground speed and feed rate limited
- Programmable feed rates, lane widths, valve trims, MPH and auger calibrations
- Nine spread rates and nine lane widths with separate on/off controls for each
- Dash mount or console mount and a single twist lock connector for easy installation
- Optional LED Remote Display



The AS2 is an ideal compromise between the simple manual spreader control and the more sophisticated computerized spreader control. The AS2 is both easy to use and very powerful with an ability to accurately control feed rate and achieve true pounds per mile. The AS2 can be set up to allow only the spreading rates required in your fleet policy.

For the size and price, the AS2 is packed with features that will give any spreader vehicle the required functions. You receive as standard equipment, the features listed at the left.

Mechanical Layout:



Electrical Specifications:

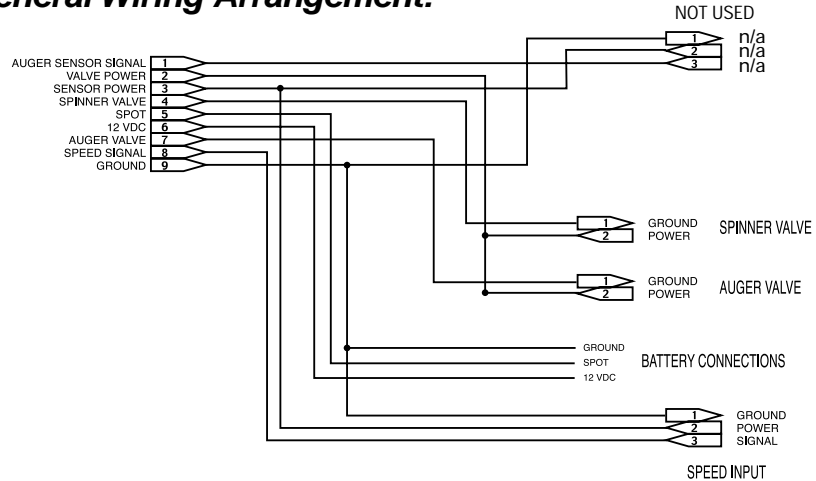
- Power input 8 VDC to 16 VDC
- Power 100 milliamps plus valve drive requirements
- Valve drive 0 to 2.5 amps each at 0 to 12 VDC
- PWM adjustable from 30 HZ to 200 HZ
- Reverse polarity and short circuit protection, internal fuse
- Ground speed input sensor. Hall type NPN or PNP, electronic VRM type 3000 OHM and low voltage
- The sensor type is selected by an internal jumper and the VRM sensitivity is adjustable
- EMI and RFI filtering is standard, tested to be noise immune for marine band radios
- Temperature range -10 to 50°C or 14 to 122°F, 95% humidity non-condensing

Programmable Features:

- Spinner minimum
- Spinner maximum
- MPH calibration
- Nine feed rates
- Nine lane widths
- PWM frequency
- Auger minimum
- Auger maximum
- Blast duration timer
- Lbs/minute auger calibration

The AS2 is designed, manufactured and serviced in the USA. It comes with a one year parts and labor warranty. If you are interested and want more information, please contact your local dealer.

General Wiring Arrangement:



Spreader Features:

Manual mode provides the operator with direct digital control of each valve. Manual operation is a reliable backup that is always usable even when a sensor has failed. Manual lets the operator sand without ground speed modulation for applications where automatic control is not needed. In the manual mode, the spinner and auger speeds are evenly distributed across the range of each knob. This always ensures that the operator can drive each of the hydraulic functions from full-off to full-on regardless of the programmed limits that may be set up in the automatic mode.

Automatic mode is used when the operator wants to have the application rate remain constant over the entire speed range of the vehicle. This ground speed feature is the best way to regulate and conserve granular material such as salt. The AS2 uses the vehicle speed in conjunction with the auger calibration to arrive at a true pounds per minute rate. The AS2 also uses the vehicle sensor input to determine when the vehicle is stopped (zero MPH) so that both of the valves will automatically be turned off. When the vehicle starts up from zero MPH, the auger valve is bumped (turned on) to 100% for about one second, then back down to the correct output level. This is an exclusive AS2 "Fast Start" design feature that greatly improves the turn-on characteristics of the proportional flow control valve. This eliminates the start-up problem common to many other spreader controls. According to field tests, the "Fast Start" feature has given open-loop systems the low speed performance of the more expensive closed-loop systems.

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