



## 8160 AUTOMATIC RATE CONTROLLER

*Accurately controls crop chemical, liquid fertilizer, and anhydrous ammonia application rates.*



- Combined with heat exchanger, provides *accurate measurement and control* of NH<sub>3</sub>.
- Back-lit liquid crystal display (LCD). Easy to read day or night.
- 7 Functions: View two at once.
- Controls up to 3 boom sections using electric ball valves or solenoid valves.
- Audible and visual alarms. Alerts the operator to unacceptable application errors.
- Dual automatic rate settings.
- Plug compatible with model 8150, 8100, and Spray Commander controllers.
- Automatic speed calibration! Just drive 500 feet and push the button.
- Simulated speed feature! Makes it easy to calibrate your sprayer without leaving the yard.
- Minimum flow feature! Keeps the nozzles from losing spray pattern when traveling below recommended speeds.
- RS232 Communications port. Applications include variable rate input and transmitting data for as-applied mapping.

**TAKE CONTROL OF ANHYDROUS COSTS**



*Easy Operation, Easy Calibration, Easy Payback*

# SYSTEM COMPONENTS



## Servo Valve 1 Inch Stainless Steel

General purpose **1" servo valve** - High quality stainless steel electric butterfly valve does the actual controlling of the application rate. This valve can be mounted in-line or in a return line to the tank.



## HM860 Flowmeter

The **HM860** is a precision stainless steel general purpose flowmeter. It is recommended for herbicides, insecticides, liquid fertilizer and anhydrous ammonia.

The operating range is 3 to 70 gallons per minute. Maximum pressure is 400 psi.

Other flowmeters are available for low application rates.



## Hub Plate Distance Sensor

The **Hub Plate Sensor** works on all implement wheels or non-driven tractor wheels.

Plates for four, five, six and eight bolt wheels are available.

Optional **radar interface modules** are available to connect the tractor radar system to the 8160 Controller.



## Heat Exchanger

The Hiniker **Heat Exchanger** is used for anhydrous ammonia applications. The **Heat Exchanger** condenses vapor into a liquid, allowing accurate measurement and control.

## GPS Ground Speed Sensor

- Simple magnetic mount
- WAAS enabled
- Two LED's indicate satellite lock and pulse output
- Accuracy immune to ground clutter or vibration
- Second output emulates radar signal for an additional monitor



# SYSTEM BENEFITS & FEATURES

- Selectable 2 line digital display of rate per acre, speed, distance, volume, area, volume per minute, percent application error.
- Retains memory when disconnected from battery.
- Individual menus and memory for spray and anhydrous ammonia applications.
- Simplified distance calibration.
- Direct wiring of ball valves for boom control.
- Remote run/hold switch to automatically switch off boom valves and put the console into hold when turning.
- User-friendly step through programming.

WE RESERVE THE RIGHT TO AMEND THESE SPECIFICATIONS AT ANY TIME WITHOUT NOTICE. THE ONLY WARRANTY APPLICABLE IS OUR STANDARD WRITTEN WARRANTY. WE MAKE NO OTHER WARRANTY, EXPRESSED OR IMPLIED.



**HINIKER COMPANY**  
58766 240 St. • P.O. Box 3407  
Mankato, MN 56002-3407  
Phone (507) 625-6621  
Fax (507) 625-5883  
[www.hiniker.com](http://www.hiniker.com)