



DirectCommand – Precision Application

New from Ag Leader, the Insight DirectCommand™ system allows operators to control application rates directly from the INSIGHT display, eliminating the need for a separate in-cab controller, reducing cab clutter and more tightly integrating technology from field to office.

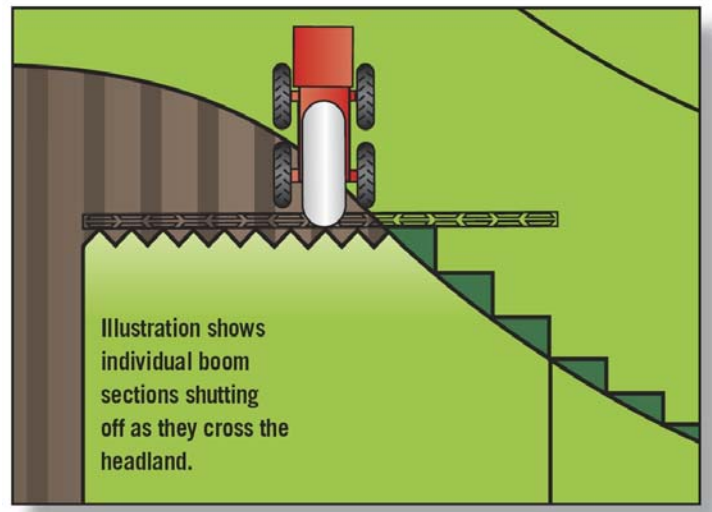
- Direct Control of sprayers, anhydrous, and other liquid applicators
- AutoSwath™ (automatic boom section shutoff control)
- Compatible with up to 10 boom section valves
- Can use factory switches already in the cab
- Manual or variable rate control
- Variable rate with a prescription file (.tgt)
- Record as applied data
- Create field boundaries while applying first pass around field
- Raven adapter harness available for replacing select Raven consoles
- Complete wiring harnesses available for sprayers with supported valves
- Raven, Mid-Tech, DICKEY-john, and Tee-Jet flow meters supported
- Raven, Tee-Jet, and Mid-Tech flow control valves supported
- Manual override of control valve (used to charge boom pressure)
- Minimum flow setting available
- Heat exchangers supported include Raven one and two valve (Accu-Flow) system, and DICKEY-john
- Control fertilizer products in lbs of N, P, or K. Insight automatically converts lbs to units of the flow meter
- Control Trimble AgGPS® AutoPilot™ system while using DirectCommand
- GPS can be used in place of a radar gun for ground speed
- 5 or 10 Hz GPS receiver is recommended
- Optional pressure sensor readout
- Optional master foot switch available

DirectCommand – AutoSwath™ Control

With DirectCommand comes an exciting new feature called AutoSwath™. AutoSwath automatic boom control allows the Insight to automatically turn individual boom sections on and off as the sprayer enters into and out of already applied areas or field boundaries. Gone are the days of manually switching boom sections off. (And gone are the days of forgetting to turn them back on!) This is especially useful around point rows, waterways, and field borders where over-application is most likely to occur. The boom section won't turn off until all areas under the boom section are applied. An on-screen coverage map, showing skips and overlaps as small as one foot, provides visual verification that the system is doing its job.

While using AutoSwath the operator always has the ability to override the system and turn any boom section off using the boom section switches. Turning the switch back on enables AutoSwath control again.

AutoSwath control also works on applicators that don't have boom sections, such as granular and anhydrous applications.



Coming Soon!

- Direct control of spinner spreaders, and air carts for granular application
- Multiple Product application
- Application Report
- Direct control of Rawson Accu-rate Drive

Components – Physical Characteristics

SC110 Switch Console



Dimensions: 10.4" W x 2.9" H x 2.1" D
(265 x 74 x 54 mm)
Weight: 1.8 lbs (0.82 kg)
Enclosure: High Impact PC/ABS

Master Foot Switch



Dimensions: 3.5" W x 1.5" H x 4.5" D
(89 x 38 x 114 mm)
Weight: 2.5 lbs (1.13 kg)
Enclosure: Cast Iron

Liquid Product Control Module



Dimensions: 7.7" W x 5.2" H x 1.6" D
(195 x 132 x 40 mm)
Weight: 2.9 lbs max (1.32 kg)
Enclosure: High Impact PC/ABS
Weather Proof for
External Mounting
Chemical and UV Resistant
Polyurethane Potting

Auxiliary Input Module



Dimensions: 6.8" W x 4.0" H x 2.1" D
(173 x 102 x 54 mm)
Weight: 2.1 lbs max (0.95 kg)
Enclosure: High Impact PC/ABS
Weather Proof for
External Mounting
Chemical and UV Resistant
Polyurethane Potting

Components – Additional Features

- CAN modules and Insight display firmware are upgradeable through compact flash card
- CAN modules and display have over current and short circuit protection
- Rugged designed CAN modules can be mounted outside of the cab
- Foot switch comes with a nonskid base pad

DirectCommand - Valve Support

Boom Valves

- Single wire control signal – On=12volts, off=0volts
- Motorized and solenoid boom valves
- 4continuous amps max per boom valve with 25 total continuous amp max
- Boom switch console available or connect direct to factory switches in cab

Control Valve

- 4 continuous amps max drive for control valve
- Controls in-line or by-pass control valves
- Controls hydraulic servo or hydraulic PWM control valves (rate controlled through solution pump)

Flow Meter

- 5 volt or 12 volt power options
- 0-2000 Hz
- 20-10000 pulses/gallon
- 5 volt pull-up on signal

DirectCommand – CAN bus

Insight uses the newest industry standard CAN bus technology (Controller Area Network). This technology allows Insight to serve as the user interface for a simple, modular system where a single high-speed cable distributes vast amounts of information to and from the other control modules.