



MICRO-TRAK[®]
SYSTEMS, INC. *AgriCruise II*

UTILITY VEHICLE GROUND SPEED CONTROL

The Agri-Cruise II™ console provides a method for ground speed and engine RPM control of Utility Vehicles used for agricultural purposes such as chemical application. The Agri-Cruise II™ console also incorporates externally controllable data collection to track application area, distance and time.

The Agri-Cruise II™ consists of two major modules. The console, which provides the automatic control based on vehicle sensor inputs and the operator interface through input switched and LCD display; and the actuator module which provides the mechanical control of the vehicle throttle through incorporated sensor inputs for disengagement of the control.

Built for your needs:

- ★ Illuminated readout for night use
- ★ High-contrast Liquid Crystal Display (LCD) with large, easy read numbers
- ★ Heavy-duty rotary switch for easy function change
- ★ Push-button automatic controller, counter reset and calibration keys
- ★ Hall-effect speed sensor with no internal moving parts for longer life and greater reliability
- ★ Weatherproof cable connectors
- ★ Heavy-duty composite case; impact and weather resistant ~ with a compact design that requires minimal space

CHEMICAL AND FERTILIZER APPLICATION

Monitor and maintain ground speed with greater ease for more consistent application. Compare chemical or fertilizer usage to an accurate measure of the coverage area to verify correct application rates.

TEST PLOTS

Accurately set-up test plots to compare the performance of different herbicides, fertilizers and pesticides.

Serving you from
Northern California
PBM Supply & Mfg., Inc.
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324 Meyers Street
Chico, CA 95928
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CONSOLE FUNCTIONS

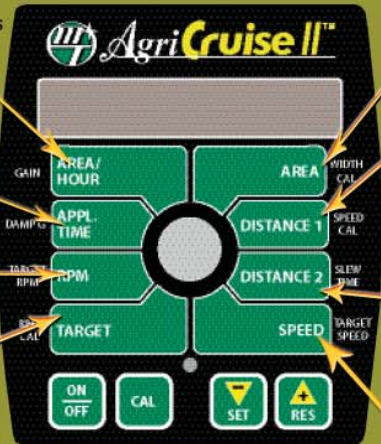
The Agri-Cruise II™ features a large, easy-to-read liquid crystal display, easy-to-use rotary dial and illuminated display.

AREA/HOUR: Displays current Area/Hours (10th's) in acres/hour (1,000 ft²/hour) or hectares/hour, depending on the units selected. NOTE: If there is no ground speed or the count input is not active, 0.0 is displayed.

APPL. TIME: Displays the amount of time in *Hours* and *Minutes* since the Count input has been active since the last item the counter was reset.

RPM: Displays the RPM measure at the RPM sensor input if installed.

TARGET: Displays the Target Ground Speed or RPM, depending on the control mode currently selected. Ground Speed will be displayed as 10th's of MPH for English or Turf units or 10th's of km/h for Metric units while RPM will display whole numbers only.



AREA: Displays area in acres, hectares or turfs (1000 ft²) based on the selected units and shows the area covered since the last time the counter was reset.

DISTANCE 1: Displays distance traveled while the Count input is active in increments of 0.1 in feet (meters). Counter rolls over at one mile for English/Turf or one km for Metric. Can also be manually reset.

DISTANCE 2: Displays distance traveled while the Count input is active in increments of 0.1 from 0.0 to 5279.9 feet for English/Turf units or 0.0 to 999.9 meters for Metric units. The Distance counter can be reset to 0.

SPEED: Displays the speed in 0.1 increments from 0.0 to 999.9 mph for English/Turf units or kilometers for Metric units, increments of 0.1 from 1000.0 to 9999.9 and then in increments of 1.0 from 10,000 to 99,999.

CALIBRATION POSITIONS




GAIN: Selecting GAIN allows Control Speed to be changed. Pressing "+" (RES) or "-" (SET) will adjust the GAIN from 10 to 100.

DAMP'G: Selecting DAMP'G allows pressing + (RES) or - (SET) to adjust from 3 to 50 to adjust over and under shoot of the target value during operation.

TARGET RPM: Allows the user to enter a TARGET RPM value of 0 or between the RPM LOWER LIMIT and RPM UPPER LIMIT in steps of 50.

RPM CAL: Allows the user to enter a RPM Cal Factor between 0.1 to 6553.5 Pulses/Revolution.

SOFT KEY FUNCTIONS

-  ★ Enables or disables automatic control operation.
 -  ★ This key is use to enter and exit the calibration mode. When used in combination with ON/OFF at power on, enters "Special" Cal.
 -  ★ Engages automatic control at last target (programmed value if OTG is disabled) if automatic control is on.
- ★ In combination with - (SET), toggles between ground speed and RPM control if automatic control is OFF, rotary is set to TARGET, and the targets and the sensor calibrations are valid.

CALIBRATION POSITIONS


WIDTH CAL: Allows the user to display and adjust the WIDTH used for accumulating area and calculating the Area/Hour from 0.0 to 65,535 inches or 0.000 to 65.535 meters.

SPEED CAL: Allows the user to display and enter the SPEED CAL value in distance traveled per pulse edge. Adjustments can be made from 0.0 to 65.535 inches/edge or 0.0 to 655.35 cm per edge.

SLEW TIME: Allows the user to change the SLEW TIME for the control actuator to provide a "Quick Start" capability.

TARGET SPEED: Allows the user to enter a TARGET GROUND SPEED value of 0 or between the GROUND SPEED LOWER LIMIT and GROUND SPEED UPPER LIMIT in steps of 0.5.

SOFT KEY FUNCTIONS

-  ★ If automatic control is on and OTG is enabled, temporarily overrides programmed target with current speed or RPM, if within limits, and engages automatic control.
- ★ If automatic control is on and OTG is disabled, engages automatic control at the programmed target.
- ★ If automatic control is on and engaged and OTG is enabled, decreases target by 0.0 MPH 9km/H) or 50 RPM.
- ★ Clears the selected counter if automatic control is disengaged and no ground speed is present.
- ★ In combination with + (RES), toggles between ground speed and RPM control if automatic control is OFF, rotary is set to TARGET, and the targets and the sensor calibrations are valid.



The **Astro GPS Speed Sensors** are a direct replacement for magnetic wheel speed sensors or radars and can interface to most brands of monitors and controllers.

The magnet mount bracket is standard and allows for quick installation and easy transfer from one vehicle to another. Not affected by crop canopies or adverse ground conditions.

ASTRO II: 1 HZ GPS Receiver
ASTRO 5: 5 hz gps receiver



The **Vansco** radar speed sensor combines state-of-the-art electronic design and manufacturing to deliver a reliable and accurate speed signal for mobile equipment, like the Calc-An-Acre II™.

Adapter cables are available for all Micro-Trak monitors and control systems.

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