

MT-9000™

**Automatic Liquid, Anhydrous and Dry
Rate Control System**



**GPS and PC
Compatible for
Variable Rate
Application.**



**MICRO-TRAK®
SYSTEMS, INC.**

The MT-9000 Automatic Rate Controller

In the rate control business, the word "control" carries a lot of weight. It's a hefty term that stands for precision, performance, and ultimately, profit. If you want to strengthen your agricultural army, control is your number one ally. The MT-9000 Series offers Variable Rate Application, or VRA, so you can tailor your pre-programmed application of liquids, granular fertilizer or anhydrous for superior weed control and crop performance. In addition, the MT-9000 Series gives you the choice of three or six booms for your application needs. The best part is, using our MT-9000 Series controller is easy! With our big, bold buttons, toggle switches, rugged outer case and large, easy-to-read multiple display, Micro-Trak simply puts you in control.



Outfitting You with the Essentials

Each MT-9000 comes equipped with these standard features:



1" Stainless Steel flowmeter:
3.5-70 GPM (13-265 litres per minute)
500 PSI (35-bar) max

1" servo valve: 150 PSI (10-bar) max.

Hall-effect (non-mechanical) speed and flow sensors, weatherproof connectors and mounting hardware.



PC Utilities software program, including the "Calibration Wizard".

Wizard takes you step-by-step through the calibration of the system on your computer. Calibration settings may be downloaded directly to the console via the RS-232 port. Settings may also be printed for a permanent record.



PC SOFTWARE UTILITIES

System: Simply putting you in control.

Building your Army

Every battle needs a strategy, and at Micro-Trak we offer several options with which to plan your attack.

FLOWMETER OPTIONS

1/2" FM500

Glass-filled polypropylene

Rating: .50-5 GPM (1-19 litres per minute)

500 PSI (35-bar) max



3/4" FM750 GFN

Glass-filled nylon

Rating: 2-40 GPM (7-150 litres per minute) 150 PSI (10-bar) max



3/4" FM750 SS

Stainless steel

Rating: 2-40 GPM (7-150 litres per minute) 500 PSI (35-bar) max



1-1/2" FM1500 SS

Stainless steel

Rating: 10-130 GPM (40-500 litres per minute) 500 PSI (35-bar) max



AUTOMATIC CONTROL OPTIONS

Although the flowmeter (which comes standard) in general, offers the greatest accuracy for automatic application, there are other preferred methods.

Pressure-based Control

Pressure-based control uses pressure readings to calculate rates and liquid totals. It allows application at rates that may exceed the flowmeter's range and provides control for situations which are not flowmeter compatible (suspensions).



PRESSURE SENSOR
AVAILABLE FROM
MICRO-TRAK

Hybrid Control

Hybrid fine-tunes high speed pressure calculations with actual flowmeter reading for exceptionally smooth and accurate control. If the pressure sensor fails or exceeds an error of 10%, the system automatically reverts to flow-based control.

SERVO VALVE OPTIONS

In addition to the standard 1" servo valve, these are also available: 3/4"-150 PSI (10-bar) max, 3/4"-300 PSI (21-bar) max, 1"-300 PSI (21-bar) max and 1" SAFi - 150 PSI (10-bar) max.

REMOTE RUN/HOLD KIT

This kit automatically turns the area counting functions on when an implement is lowered into its operating position. It also turns the area counting functions off when raised to prevent double counting when turning around and counting during transport.

DIGITAL SPEED ADAPTER

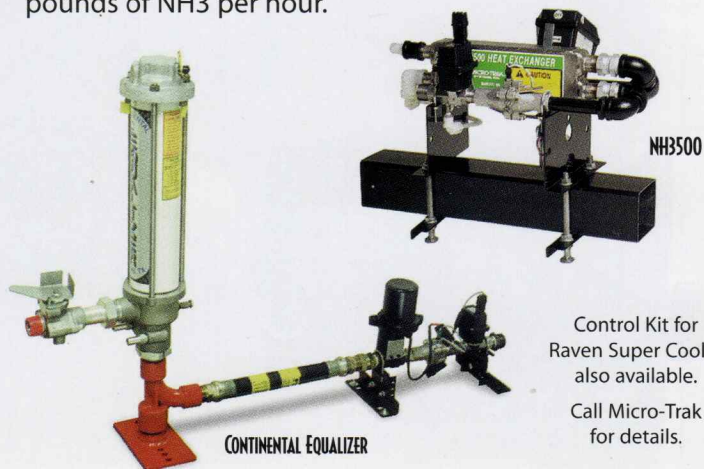
The Digital Speed Adapter, or DSA, is designed to provide your Micro-Trak monitor or controller with a speed signal from your radar speed sensor or your vehicle's factory-installed speed sensor. Note: Contact Micro-Trak for vehicle compatibility.

TRAK-STAR

Trak-Star uses high frequency sound waves to provide a true measurement of ground speed. It eliminates possible errors that can result from wheel slippage and is unaffected by factors that can degrade the accuracy of radar speed sensors.

NH3 KIT

These kits give the MT-9000 the ability to automatically control anhydrous application rates. They allow accurate metering and consistent control regardless of changing speed, air temperature or tank pressure, up to 9000 pounds of NH3 per hour.



NH3500

CONTINENTAL EQUALIZER

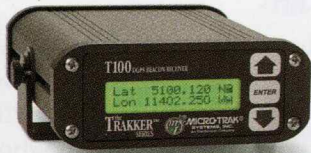
Control Kit for Raven Super Cooler also available.
Call Micro-Trak for details.

The Trakker™ Series GPS Receivers

The latest weapon in the "control" battle is Differential Global Positioning System, or DGPS. Data collected in precision farming is dependent upon accurate information when measuring performance from year to year. To make this possible, Micro-Trak now offers The Trakker™ Series of DGPS Receivers.

T100 DGPS BEACON RECEIVER

This is our most popular model.



It was designed

to provide cost

efficient performance for harvesters and other equipment requiring accuracy's in the 1-3 meter range. The T100 offers dual band, 12-channel GPS receiver with 1 PPS (positions per second) timing. What this means is the T100 is always locked on 2 Coast Guard beacon towers. If something should happen to one tower's signal it will immediately switch to the next. 12 channels means it can utilize up to 12 satellites to increase accuracy while receiving 1 PPS to keep everything current. The T100, as with all of the Trakker models, has a digital front display that lets you know immediately how your Trakker is performing.

Mapping-compatible software companies are available on request by calling Micro-Trak Systems, Inc. See phone and fax numbers at right.



T200 DGPS BEACON/L-BAND RECEIVER

The T200 has all the features of the T100,



dual band, 12

channel and 1 PPS, but

we've added the ability to utilize L-Band satellites, which are available anywhere in the world that crops are grown, for those who are presently out of range of a Coast Guard beacon. This is the perfect unit for custom harvesters and applicators that cover a large territory and don't want to worry about GPS coverage. If you are in North America, this unit will tell you exactly where you are. If a new beacon tower is built in your area, you can switch to the Coast Guard signal.

T150 PRO DGPS BEACON RECEIVER

The T150 Pro is our top of the line beacon receiver (pictured below). It is still a dual band, 12-channel receiver but we have added a much greater degree of accuracy. This unit offers an accuracy of under one meter. This is required for such tasks as parallel swathing and guidance, and variable rate. We also include 5 PPS (that's 5 position checks per second) at no extra charge.

T250 PRO DGPS BEACON/L-BAND RECEIVER

This unit is our high accuracy, go anywhere receiver.



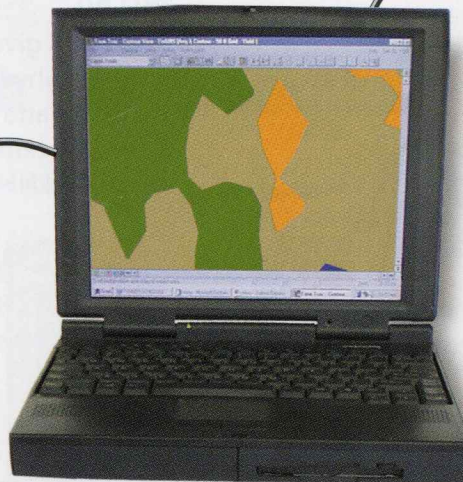
We've

taken the T150

Pro and added L Band. This is a very popular model for custom applicators who move equipment over a very wide geographic area. And again, you get all the accuracy required for parallel swathing and variable rate, plus you have an ultra precise scouting tool for anywhere in North America, without worrying about GPS coverage.

All Trakker products offer custom Windows 95® software for GPS and beacon receiver configuration and monitoring of receiver status.

The rugged, easy-to-use Trakker Series offers the right product for your operation needs and a price that fits your budget.



THE T150 PRO DGPS BEACON RECEIVER



MICRO-TRAK®
SYSTEMS, INC.

P.O. Box 99 Eagle Lake, MN 56024

Phone: (507) 257-3600

Fax: (507) 257-3001

email: trakmail@micro-trak.com

Visit our web site at: www.micro-trak.com

Toll Free in U.S. and Canada

1-800-328-9613