

## AREA PLUS OPERATION

The Area Plus Monitor System is designed to monitor and accumulate several types of data useful in many farming operations. When properly calibrated it uses pulses from a wheel sensor to provide distance covered, current speed, hours elapsed and two separate area totals. With an optional RPM sensor installed it will provide current shaft RPM indication. The area, distance and hourmeter modes act as totalizing counters that continue to increase until they are reset. Speed and RPM modes provide current indications that change on the go.

(Calibration procedures and information are detailed in the Area Plus Installation and Instructions Manual.)

### Distance Mode



Figure 13. The Control Panel and Display of the Area Plus Monitor Head

In Distance mode the monitor accepts pulses from the wheel sensor and, using calibration numbers entered by the operator during the calibration procedure, calculates the distance traveled since the last time it was reset. The distance is shown on the monitor display when the DIST key is pressed.

During operation, after this mode is reset, the monitor head will display distance in feet, and tenths of a foot, up to 999.9 feet. When the counter exceeds this number the display automatically changes to indicate in feet up to 9999. After this number is exceeded the display automatically changes to indicate in miles up to 999.9. If 999.9 is exceeded the display will indicate OFL (overflow).

### Hourmeter

In the Hourmeter mode the display shows the elapsed time since the last time the hourmeter was reset. The elapsed time is based on clock circuitry within the monitor. The elapsed hours are shown on the monitor display when the HOUR key is pressed.

During operation, after this mode is reset, the monitor head will display minutes: seconds, then hours:

minutes, and finally, hours up to 9999. If 9999 hours is exceeded the display will indicate OFL (overflow).

## **Speed Mode**

In Speed mode the monitor uses pulses from the wheel sensor, as well as timing information from the internal clock, and calibration information entered during the calibration procedure to determine an accurate current indication of miles per hour. Resolution of the display is one tenth of a mile per hour. The speed is shown on the monitor display when the SPEED key is pressed.

## **Area 1 and Area 2 Modes**

The Area Plus provides two Area counters. In either of the Area modes the monitor uses pulses from the wheel sensor (which indicate distance traveled) as well as implement width information entered during the calibration procedure, to determine area covered since the last reset. Area is indicated on the display in acres when either the AREA 1 or AREA 2 keys are pressed. The two modes can be reset independently, which allows one counter to hold a sub-total of the acres covered and the other to hold the grand total.

During operation, after an area mode is first reset, the monitor head will display area in acres, and tenths of an acre, up to 999.9 acres. When the counter exceeds this number the display automatically changes to indicate in acres up to 9999. If 9999 is exceeded the display will indicate OFL (overflow).

## **RPM**

In RPM (revolutions per minute) mode the monitor uses pulses from a shaft sensor, the internal clock, and calibration information entered during the calibration procedure to determine shaft RPM. The RPM is shown on the monitor display when the RPM key is pressed. If the RPM exceeds 9990 the monitor will display OFL.

## **Resetting Area Plus Modes**

To reset the AREA 1, AREA 2, DIST or HOURMETER counters press the associated key and then press and hold the Down Arrow key for 3 seconds. The display should return to all zeros.

## **Run/Hold Mode**

The Run/Hold switch on the top of the monitor head allows the operator to stop the accumulation of area and distance at any time by moving the switch to the HOLD position. The display will flash if HOLD is selected. If the automatic RUN/HOLD sensor is installed on the implement the monitor head RUN/HOLD switch is set to HOLD. In this situation the area and distance counters will only accumulate as long as the implement is in the working position.

