



## Anti-Ice System – Configuration and Trimming Steps

1) To configure the anti-ice system, power the unit up. Once the “mode” screen is displayed, simultaneously hold the auger and pre-wet switches down to enter the “configuration screen.” You will be asked for a password, enter “\_\_\_\_\_” using the spinner controls to change the digits, and the blast/pass controls to change cursor positions. Run the cursor past the end of the password to enter setup mode.

2) Using the spinner switch, select “Trim/Cal”, and scroll down to “anti-ice” and push pass to select. This will put you at the Anti-Ice Setup and make selections. Use Anti-Ice +/- to toggle between Yes (Y) and No (N).

- a) Anti-Ice Present – answer yes to activate system;
- b) Sensor Present – Sensor Present: choose NPN, PNP or No; Default is NPN;
- c) Minimum Trim – do not adjust value from factory pre-sets until the next section...trimming.
- d) Maximum Trim – do not adjust value from factory pre-sets until the next section...trimming.
- e) Multi-Tier System – yes for two tier system, no for single tier boom system;
- f) Anti-Ice uses Prewet channel: answer yes for special use of pre-wet plumbing and extra spraying apparatus controlled like Anti-Ice, but using Pre wet hydraulics. Special use only.
  - a. Pulses per Gallon: enter the pulses per gallon rating of your flow meter. Refer to flow meter manufacturer to determine the signal pulses sent by the flow meter for each gallon (or liter if set in metric mode).  
Micro-Trak FM500 – flow meter used by Cirrus Controls
    - a) **Gallons: Pulses per gallon = Flow cal number / 2**
    - b) **Liters: Pulses per gallon = Flow cal number / 7.58**Raven brand flow meters are listed in pulses per 10 gallons.
  - c) divide the flow meter rating by 10 and input that value.

**Note: units of measure here must match units of measure in master set up. If you are changing from English to Metric units, you must start at the first setup step and be consistent or calibration errors will occur;**

- g) Pump max. Gal/minute: enter the max output rating of your anti-ice system pump.
- h) Tier 1 Max GPM: Enter the maximum flow rate of the Tier 1 booms (in gallons per minute). This setting is the point at which the Tier 2 –High Flow Booms turn on. Note: early versions of **SpreadSmart Rx™** named this function “Tier 2 GPM.” The value entered is the same as Tier 1 max GPM.
- i) Tier 2 Max GPM. Enter the maximum flow rate of the Tier 2 booms (in gallons per minute). This setting is the point at which the system turns both tiers on. Earlier versions of **SpreadSmart Rx™** named this function as “Tier 1+ Tier 2 GPM.” The value to enter is the same as the Tier 2 max GPM.

Use spinner + to return to the minimum trim line. You can now follow the instructions below to set the trims on the anti-ice pump.

9210 Wyoming Ave. N, Suite 200, Brooklyn Park, MN 55445

Tel: 763-493-9380 Fax: 763-493-9340

www.cirruscontrols.com