

CALIBRATION INFORMATION

Flow Control Valve = PWM Closed
12 Volt
110 Hertz

Meter Control Valve Cal # = 1023 (See Controller manual for fine tuning)

Encoder = Raven 5 Volt 36 Pulse

Auger Drive = 14 tooth #40 drive sprocket (encoder)
22 tooth #40 driven sprocket (auger)
1.57 to 1 Ratio

Meter Speed Sensor Cal # = $36 \times 1.57 = 56$ (pulses per auger revolution)

Low limit/High limit = (Use default setting see controller manual for instructions)
Auger RPM Standard meter 10 – 130 MAX
Auger RPM High Output meter 10 -165 MAX

Tank Capacity = 6 Ton 187 cubic ft. or 150 bushels
9 Ton 281 cubic ft. or 225 bushels

Displacement per Row = Standard Meter (2" hoses) 0.0016
High Output Meter (2 ½" hoses) 0.0032

CFR (cubic ft / Revolution) = Displacement per Row X Number of Rows = CFR

Adjust CFR = $\frac{\text{Actual Rate or Scale weight}}{\text{Desired Rate or Weight displayed on controller}} \times \text{Current CFR} = \text{New CFR Cal\#}$

Spreader Constant = $\frac{\text{Meter Speed sensor Cal\#}}{\text{CFR}} = \text{Spreader Constant \#}$

Adjust Spreader Constant = $\frac{\text{Spreader Constant}}{\text{Actual Rate}} \times \text{Desired Rate} = \text{New Spreader Constant}$

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Controllers with Automatic Calibration Functions:

The Montag applicators fan must be running at normal operating pressure when performing automatic calibration functions on a controller such as PWM limits.

Typical Controller Calibration for 30 inch Rows:

Set your product density to 62, your application rate to 250 lbs. / acre, test speed at 5 MPH and run the controller in test mode. The auger shaft should turn 60 RPM for a standard machine and 31 RPM for a High Output machine. If it does not you can raise or lower your CFR # or Spreader Constant # to achieve the proper RPM.

	Standard Meter (2" Hose)	High Output Meter (2-1/2" Hose)	
Auger Shaft Speed	60	31	RPM
Product Density	62	62	lb/cu-ft
Test Speed	5	5	mph
Displacement per Row	0.0016	0.0032	cu-ft/Rev
Row Spacing	STD Rate	HO Rate	Units
20" Row Spacing	375	375	lb/acre
22" Row Spacing	341	341	lb/acre
30" Row Spacing	250	250	lb/acre
34" Row Spacing	220	220	lb/acre
36" Row Spacing	208	208	lb/acre
38" Row Spacing	197	197	lb/acre
40" Row Spacing	187	187	lb/acre