

Installation of the Tucor Sensor Decoder using the Data Industrial Flow Meter



NOTE: the Data Industrial Flow Meter output is a high pulse digital signal and uses the pulse per 10 seconds units

1. **Identify the proper size flow meter and select the corresponding conversion values.**
2. **Enter conversions values into PC software. Download database to controller.**
3. **Using Sensor Test verify controller does read sensor decoder.**
4. **Benchmark flow using know valves or series of valves.**
5. **Modify conversion values if necessary to adjust for actual hydraulic flow.**

For Management Software up to V2.23, BEGIN with the File Tab and:

- Select Edit Installation
- Select Flow Sensors

For Management Software of V2.23 and higher, begin with the Installation Data tab and:

- Select Sensor Decoder

THEN choose pulse per 10 seconds and enter conversion units.

Identify the meter type and from the chart below to determine typical flow rates and pulses. For example, for a 2" flow meter enter 55 GPM and 202 for #pulses in 10 seconds. Transfer the settings to the controller and put controller in "Auto" mode. This will initialize the flow sensor.

Data Industrial Flow Sensor Parameters

Type	K	GPM	Pulse/10 Sec.
220P-1	0.255	20	784
220P-1.5	1.48	35	235
220P-2	2.73	55	202
220P-3	4.36	125	286
220P-4	8.34	200	237
220P-4B	7.35	200	270
220P-6B	19.5	450	228

To test the sensor connection and address go to the Test Menu, Sensor Test. If the controller successfully finds the sensor decoder it will display a value (probably zero because of no irrigation). If the controller cannot find the sensor decoder the value field will remain blank.

To verify conversion values against system actual flow hydraulics, select a valve (or series of valves) with known flow and manually open for a few minutes. Compare displayed flow to valve rating(s). To adjust conversion value to actual flow, add or subtract 10 units from pulse/10 value. To increase converted flow subtract 10 units, to decrease add 10 units. Download and record flow. Repeat as necessary.