



Creative Sensor Technology

**FLOW SIMULATOR
SIM-100**



Operating Guide

The CST Flow Simulator provides a practical way to simulate the output signal produced by CST and other two wire impeller type flow sensors.

- The simulator uses the irrigation controller flow sensor circuit for power—no batteries required.
- The simulator connects to flow inputs and field wiring with leads colored the same as flow sensors Red (+) and Black (-).
- The simulator works with all controllers capable of reading two wire, digital flow sensors like CST FSI series as well as CST Isoflow and Combiflow products.
- The simulator has 9 selectable output frequencies to cover a full simulated flow range.

Enter a K and Offset pair in the controller flow set-up. Turning the knob to the position numbered in the left column will produce the frequency shown in the second column. The controller will display the flow rate* shown in the column below the sensor model.

* Due to variations in controller firmware, the displayed flow rates might be approximate.

SIMULATOR							
Position	FREQUENCY		FSI-T10	FSI-T15	FSI-T20	FSI-S30	FSI-S40
	IN HZ						
	↓	K	0.322	0.65	1.192	2.75	4.53
		OFFSET	0.2	0.75	0.940	1.58	1.11
		GPM for each sensor					
0	0		0	0	0	0	0
1	2		0.7	1.8	3.5	9.8	14.1
2	5		1.7	3.7	7.1	18.1	27.7
3	10		3.3	7.0	13.0	31.8	50.3
4	20		6.5	13.5	25.0	59.3	95.6
5	30		9.7	20.0	36.9	86.8	140.9
6	50		16.2	33.0	60.7	141.8	232
7	90		29.0	59.0	108.4	252	413
8	120		38.7	78.5	144	334	549
9	150		48.4	98.0	180	417	685