



Creative Sensor Technology

FLOW SIMULATOR SIM-100



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 has 9 selectable output frequencies to cover a full simulated flow range.
- The simulator works with all CST Isoflow and Combiflow products.

APPLICATIONS:

Sales—

- Demonstrate flow reading capabilities of “Smart” irrigation controllers.
- Turn Simulator OFF to demonstrate “No Flow” conditions.
- “Learn” zone flow at one setting then switch to high output to show “High Flow” alarms.

Installation-

- Quickly check field wiring and controller inputs before making waterproof splices to flow sensor.
- Troubleshoot problems quickly and efficiently

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The Simulator is powered by the flow sensor circuit of the controller or CST device.

DO NOT CONNECT TO A POWER SUPPLY

The table below lists the simulated flow in GPM for each CST sensor size at each frequency. The frequency is selected by the rotary switch position.

SIMULATOR							
	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	
Position		GPM for each sensor					
0	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	

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