

Hunter®

Flow-Clik Flow Sensors



Flow-Clik

**Automatically
Shuts Down
System if
an Overflow
Condition
Occurs**

The hazards of an over-flow situation know no economic boundaries. A high flow and the damage that can occur could just as easily take place on a simple residential system as it could on a top-of-the-line commercial system comprised of institutional-grade components. That's why Hunter has developed the Flow-Clik, an economical way to monitor and shut off the flow of any system – existing or new, large or small. A ruptured pipe or broken sprinkler that is left undetected can result in a substantial amount of damage. Plants and groundcover can be flooded, a slope

can be eroded, even solid surfaces such as sidewalks or driveways can be undercut. The installation of a Flow-Clik will ensure that such a break will be identified before any damage can occur. The Flow-Clik is user-set to activate at a specified level of flow; once that level is exceeded, the electrical circuit is broken and the valves are shut off. As a result, the amount of water loss in the event of high external leakage would be substantially reduced. For liability reduction, erosion prevention and an easy means of water conservation, there is no better low cost solution than the Flow-Clik.

FEATURES & BENEFITS



Reduced costs for rupture-related repairs

Unanticipated budget allocations kept to a minimum

Interface panel provides system status

"Overflow watchdog" provides constant update for any system

Compatible with all commercial and residential piping systems

Large flow range provides complete flexibility

Customized calibration for precise system control

Every irrigation system is set individually with a single push button

Multi-color LED provides system status

Displays if power is applied and whether flow is acceptable



Dimensions

Flow-Clik Sensor Body:

- FCT-100
(12.2 cm H x 5.85 cm W x 11.4 cm L)
- FCT-150
(13.70 cm H x 5.85 cm W x 11.70 cm L)
- FCT-158
(13.70 cm H x 5.85 cm W x 13 cm L)
- FCT-200
(15 cm H x 6.85 cm W x 12 cm L)
- FCT-208
(15.3 cm H x 7.40 cm W x 13.7 cm L)
- FCT-300
(17.80 cm H x 10.20 cm W x 15.80 cm L)
- FCT-308
(17.80 cm H x 10.67 cm W x 16.25 cm L)

Flow-Clik Interface Panel:

(11.43 cm H x 14 cm W x 3.80 cm D)

FLOW RANGE			
FLOW SENSOR DIAMETER	OPERATING RANGE (LPM)		
	MINIMUM*	SUGGESTED MAXIMUM**	MAXIMUM
25 mm (1")	23	64	190
40 mm (1½")	50	132	380
50 mm (2")	76	208	760
80 mm (3")	150	450	1140

* Minimum recommended flow for the highest flow zone for your system

** Good design practice dictates the maximum flow velocity not to exceed 1.5 mts/sec. Suggested maximum flow is based upon Class 200 IPS plastic pipe

Operating Specifications

- Temperature: -18 to 65 degrees C
- Pressures: Up to 1,379 kPa, 13.7 Bars
- Humidity: Up to 100%

Electrical Specifications

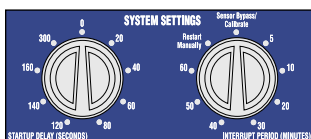
- Current Draw: @24VAC .025 Amps
- Switching Current: 2.0 Amps
- Maximum Distance Between Interface Panel and Sensor = 305 meters

Additional Features

- Programmable Start Up Delay (0 to 300 Seconds)
- Programmable Interrupt Delay (5 to 60 Minutes)
- System Status Indicator Light
- One Button System Calibration to Highest Flow



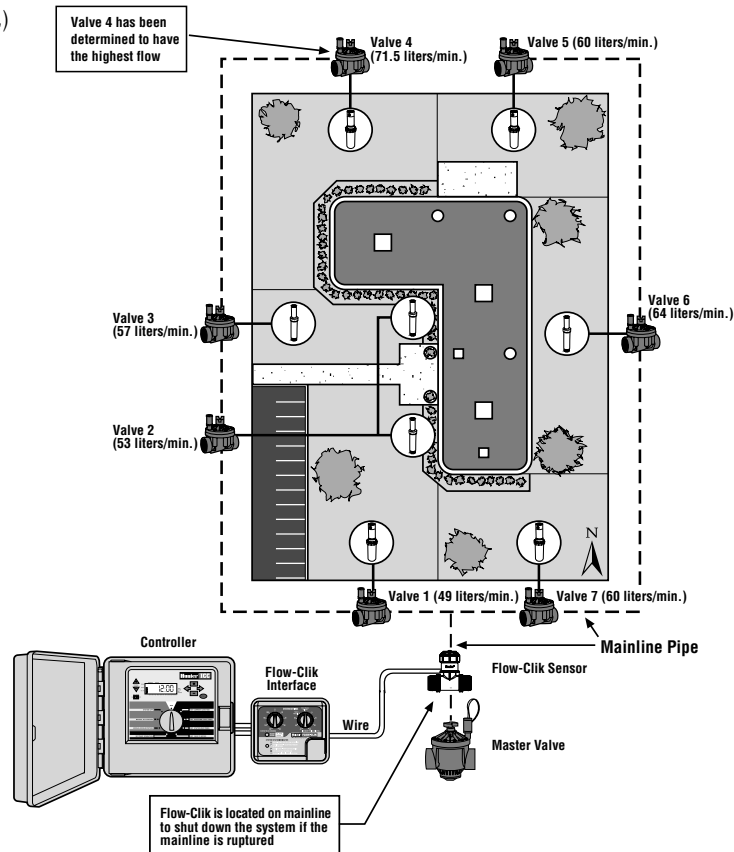
Depress the button on the Flow-Clik interface to calibrate the flow sensor with the highest flow zone running.



Move the dial on the Flow-Clik interface to adjust the system interrupt period and system start-up delay.

How Flow-Clik Works: An Example

At a small commercial site, the Flow-Clik sensor is connected to the mainline pipe that provides water to the system control valves. The user determines which valve has the highest flow rate and calibrates the flow sensor to automatically identify any flow in excess of this pre-determined amount. In this case, 71.5 LPM is the highest flow zone. The user also sets the desired setting for the system interrupt and start-up delay. If flow should exceed 71.5 LPM, a signal would be sent to the controller to interrupt the system for a prescribed period of time.



Key Information

Valve with Highest Flow: #4 – 71.5 liters/min.

System Interrupt Delay: 10 minutes

System Start-up Delay: 20 seconds

Lateral Line Break: If a break should occur on zone #3, the Flow-Clik would sense a "high flow" condition (>80 liters/min.) and would shut down the system for the prescribed interrupt period.

Mainline Rupture: The Flow-Clik would identify a "high flow" condition approximately 20 seconds after the first valve is activated based on the irrigation schedule and the master valve would shut down.

Note: To assure optimum performance, the highest flow zone flow rate should not be higher than 75% of total available flow.



Broken or vandalized sprinkler heads can result in substantial amounts of wasted water.



An undetected lateral line rupture is not only wasteful, the flooding can also damage turf and ground cover. If the rupture is on or near a hillside, there can also be erosion damage.

SPECIFICATION GUIDE

EXAMPLE: **FLOW-CLIK - 150**

MODEL
FLOW-CLIK = Standard Version for all 24VAC Controllers
FLOW-CLIK IMMS = Version for use with IMMS Central Control

SENSOR BODY SIZE
FCT-100 = 25 mm (1") Schedule 40
FCT-150 = 40 mm (1½") Schedule 40
FCT-158 = 40 mm (1½") Schedule 80
FCT-200 = 50 mm (2") Schedule 40
FCT-208 = 50 mm (2") Schedule 80
FCT-300 = 80 mm (3") Schedule 40
FCT-308 = 80 mm (3") Schedule 80

Note: Order Flow-Clik device and sensor body separately