

Badger® Series 1500 Flow Monitor

Leak Control with Indication Normally Closed Master Valves

Application Brief

PROBLEM

Automatic irrigation systems save thousands of man-hours per day while efficiently watering the landscape. However, due to broken or missing sprinkler heads, risers or pipeline breaks, they may be wasting huge quantities of water or causing severe soil erosion problems.

SOLUTION

Leading irrigation designers have eliminated these problems with Badger Meter Flow Sensors and Controls.

In a typical system, a Badger Meter Series 200 impeller-type flow sensor is installed in the main or sub-main pipeline to be controlled. A Model 1500-011 is connected to the sensor (up to 2000 feet away); and its relay set to trip should a greater than expected flow occur for more than a pre-set period of time. Once a high flow is detected the Series 1500's relay trips an auxiliary relay that interrupts the power to the solenoid of the normally closed master valve. This shuts off the flow of water. The Series 1500 continues to prevent the master valve from opening until an operator checks the system, corrects the problem, and resets the Series 1500.

PROGRAMING

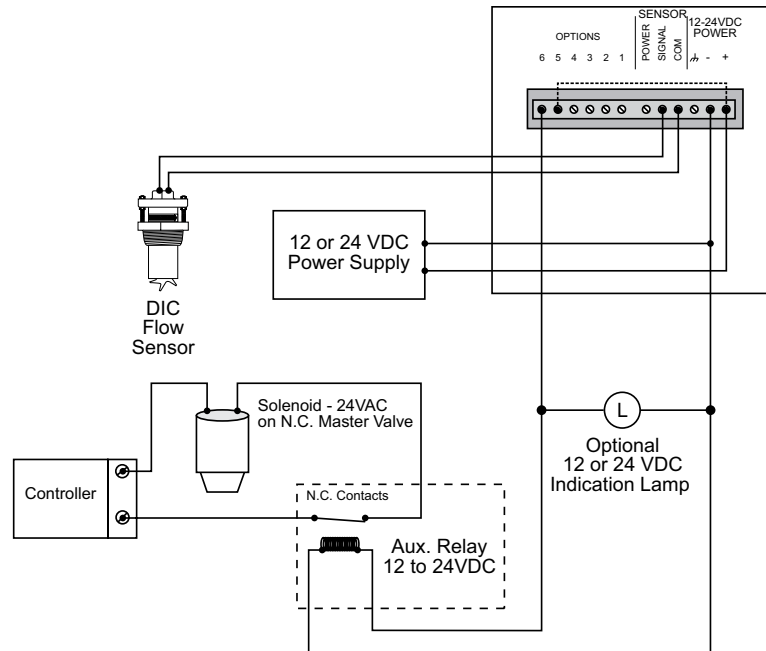
1. Program K and Offset for sensor used (MAIN sensor)
2. Program alarm as "latched" (MAIN alarm à ALARM on/off)
3. Program alarm to "trigger above" (MAIN alarm à ALARM trigger)
4. Program set point about 10-15% above highest flow (Main alarm à Alarm threshold)
5. Program time delay = 30 seconds (Main alarm à ALARM delay)

MOUNTING

The Badger Series 1500 is usually mounted in the irrigation controller enclosure or pedestal. An optional outside indicator light, mounted on the side of the pedestal, alerts the irrigation operator to the problem.

COMPONENTS/WIRING DETAIL

1. Flow Sensor - Badger Meter Series IR200
2. Control - Badger Meter Model 1500-011
3. Power Supply – Model A1026 (12VDC) or Model A503 (24VDC) or
4. Auxiliary Relay : Form C or N.C. relay with 12 or 24VDC coil
5. Master Valve - N.C. (normally closed), 24 V.A.C. actuator



DAB-047-01

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