

Although the Motorola MIR 5000 Irrigation Controller is no longer in production, this popular workhorse may be programmed for a variety of control functions based on flow. Badger Meter products provide the flow signal input to the Motorola system.

The Badger Meter products consist of an impeller-style sensor mounted on the pipe, and a signal converter usually mounted in the controller pedestal.

**THE SENSOR**

Advantages of Badger Meter over other types of flow meter are:

- 1) Insert Style - Allows easy installation via saddle on any size pipe.
- 2) Non-Magnetic Detector - Prevents fouling by rust and scale. Detects lower flow rates.
- 3) The sensor may be located up to 2000 feet away from the controller.

Although any Badger Meter sensor may be used, the most popular are the Model 220B standard sensor and Model 225B Hot Tap style with isolation valve. Both may be used on any pipe size above 3 inch or greater with a 2 inch NPT saddle. The Model 225B offers an isolation valve that allows the sensor to be removed from the pipe for service without draining or depressurizing the pipe.

**THE SIGNAL CONDITIONER**

The signal conditioner receives a high frequency signal from the sensor and converts it to a scaled pulse. The scaling may be selected in the field, resulting in a number of gallons (or cubic feet or liters) per pulse. Do not scale the pulse rate to exceed 12 pulses per minute.

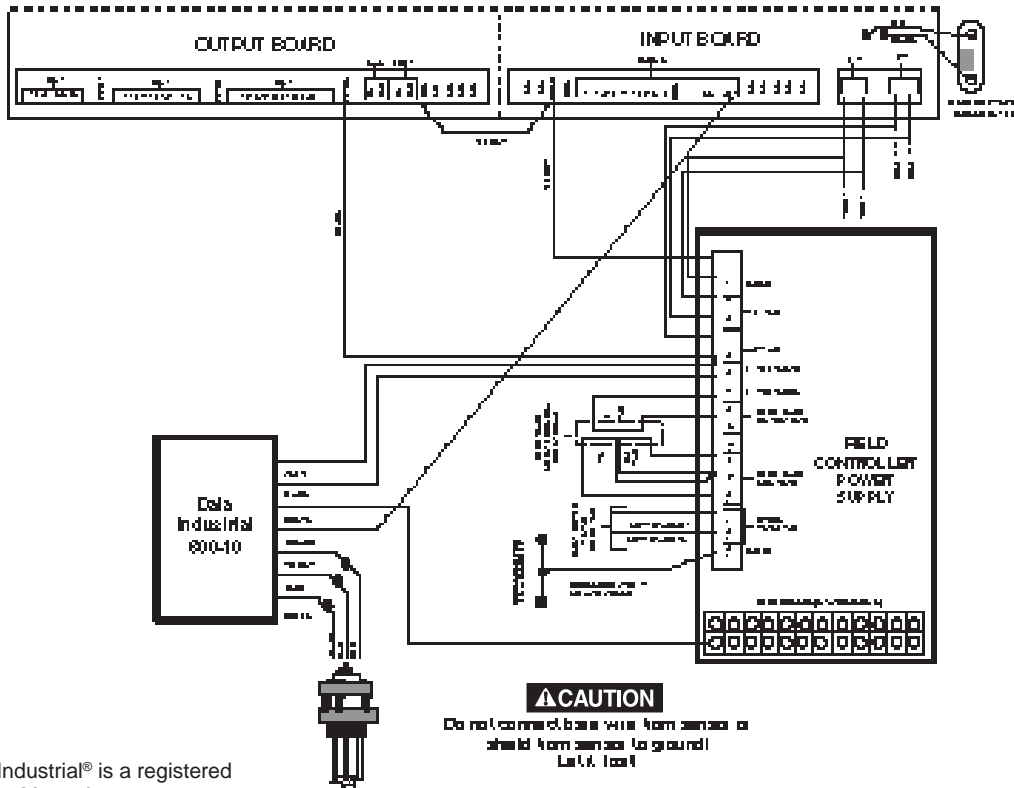
Example: If the maximum flow rate is 500 GPM, scale the pulse rate at 1 pulse equals 100 gallons. This will produce 5 pulses per minute. Do not scale it at 1 pulse equals 10 gallons, because this would produce 50 pulses per minute. Scaling instructions are provided in the Badger Meter Owner's Manual.

**CHOICE OF CONDITIONERS**

Three different signal conditioners may be used: The Badger Meter Model 600-10, Series 320, or the Badger Meter Series 1500 with Relay Output option, which provides a pulse output along with a digital display of flow rate and total.

**WIRING DIAGRAM**

Please wire according to the following instructions. **Note:** Do not connect the bare sensor wire to ground - Damage to the equipment will occur!



Badger® and Data Industrial® is a registered trademark of Badger Meter, Inc.

DTB-033-01

4-09



Please see our website at [www.badgermeter.com](http://www.badgermeter.com) for specific contacts.

Copyright © Badger Meter, Inc. 2009. All rights reserved.



**BadgerMeter, Inc.**

P.O. Box 581390, Tulsa, Oklahoma 74158  
(918) 836-8411 / Fax: (918) 832-9962  
[www.badgermeter.com](http://www.badgermeter.com)

®

Due to continuous research, product improvements and enhancements, Badger Meter reserves the right to change product or system specifications without notice, except to the extent an outstanding contractual obligation exists.