Badger® Model/Series #	Product Type	Technical Brief

THE PROBLEM
In applications ranging from industrial process or municipal monitoring to irrigation and geophysical data collection, there is a need for a small, portable data acquisition system to record water flow through closed pipelines. The requirements may vary from on-site data collection to be retrieved annually to daily polling via RS-232-C communications modem.

THE SOLUTION
Data Industrial flow sensors used in conjunction with the OmniData Easy Logger™ provide a simple solution to this problem.

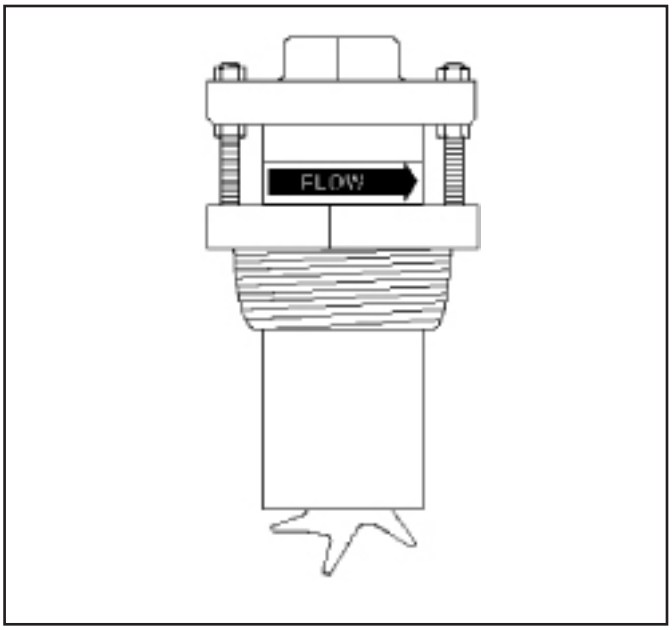
Data Industrial sensors overcome the installation and maintenance problems associated with traditional flow sensors. Because they are insertion devices, they can be installed with a 2" service saddle, eliminating cutting out a section of pipe. Hot tap models permit installation and service on fully pressurized systems, eliminating system disruptions for drain down and depressurization.

Data Industrial flow sensors are less expensive and more accurate than comparable models on the market because their linear electronic pulse output eliminates expensive differential pressure transmitters, square root extractors, or analog signal converters.

The non-magnetic impeller provides improved operation and repeatability at lower flow rates. Sensors are available for pipe sizes from 1 inch to over 36 inches, with pressure ratings up to 400 PSI and temperature ratings up to 221°F.

The Easy Logger can be calibrated in the field for the appropriate pipe size, can be fitted with a variety of storage modules or power supplies.

East Logger is the trademark of OMNIDATA International, Inc. P.O. Box 3489, Logan, UT 84321
(801) 753-7760 or Toll free (800) 321-7218



INSTALLATION
To interface the flow sensor with the Easy Logger requires no internal changes to either product. Simply connect the wiring in the following manner:

1. Obtain three standard ¼ watt resistors:

1K
10K
100Ω

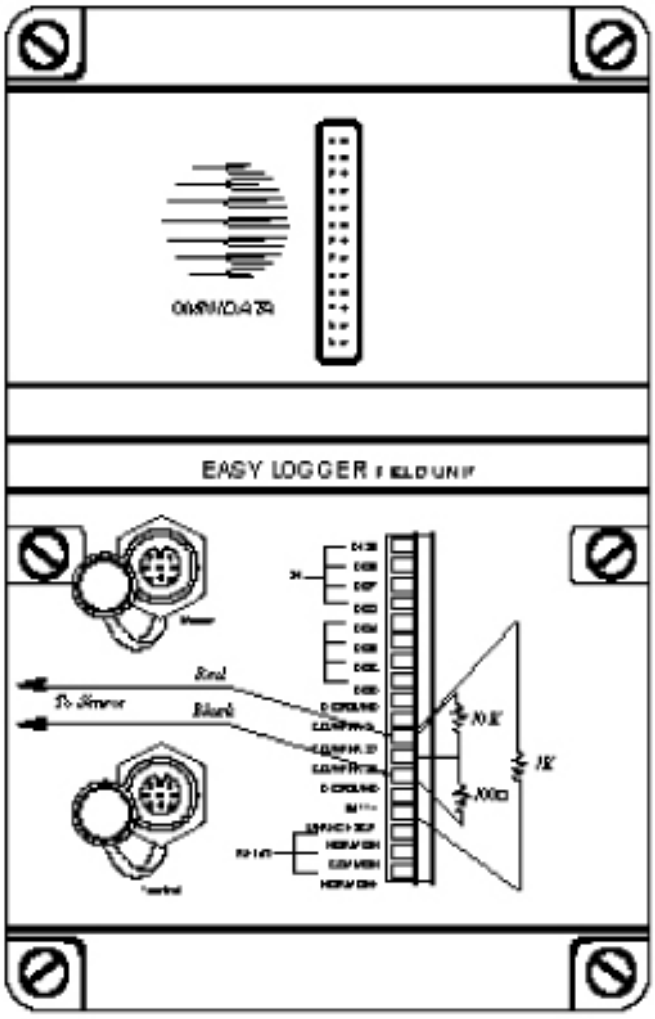
2. UNREG EXIT terminal. Connect one end of the 1K resistor to the "UNREG EXCIT" terminal on the Easy Logger.

3. DIGITAL OUTPUT TERMINAL. Choose any unused digital input terminal:
DI35, DI36, DI37, COUNTER 31, OR COUNTER 32.
(Refer to the diagram below.)
Connect to it:
the other end of the 1K resistor
one end of the 10K resistor
the red Data Industrial sensor lead

4. COUNTER 33 TERMINAL. Connect the other end of the 10K resistor.

Connect one end of the 100Ω resistor.

5. D GROUND TERMINAL. Connect the other end of the 100Ω resistor.



Data Industrial®

Please see our website at **www.badgermeter.com** for specific contacts.

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.

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