

### DESCRIPTION

The Data Logging kit can be ordered with this part number: 67354-010

The Data Logging feature records three types of events:

- Totalizer/error events
- Configuration change events
- Startup events (power up or reset events)

Each type of event is recorded into three separate files stored on internal memory.

**NOTE:** Over time the data logging will reach the capacity of the memory. Any new events to be recorded will overwrite the oldest event on record.

#### Totalizer/Error Events

The capacity of the logging memory is 30,000 messages. The table below defines the capacity of the memory configured for data logging. On each interval the totalizers are recorded in addition to any errors that have occurred from the last interval. To program the interval, go to *Miscellaneous > Datalog Period*.

Interval	Totalizer / Error Events
15 min	up to 312 days
1 hr	up to 1250 days
6 hr	up to 20 years
12 hr	up to 40 years
24 hr	up to 80 years

#### Configuration Events

Each **Configuration event** identifies the parameter that was modified and to what value the parameter was changed. Up to 40 configuration events can be recorded.

#### Startup Events

Each **Startup event** identifies the time and reason of the event. The M1000 does not record the date and time of a power off. A total of 20 startup events can be recorded.

### EXTRACTING THE EVENT FILES

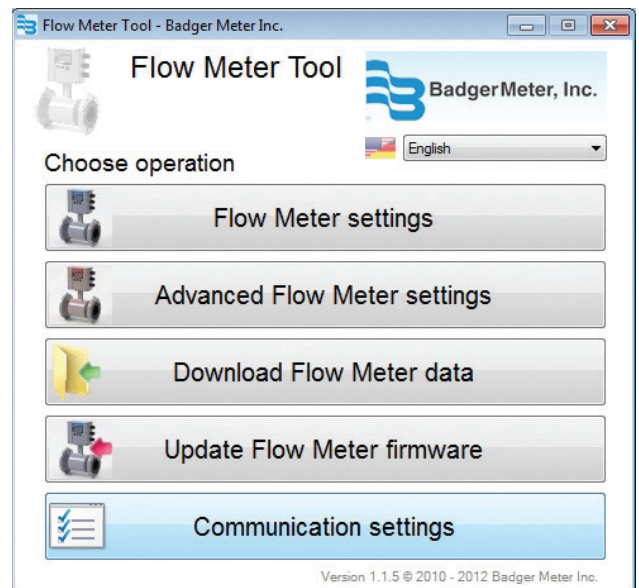
All logged events can be extracted from the meter using the supplied Flow Meter Tool software, which connects the meter to a laptop via the supplied RS232 cable.

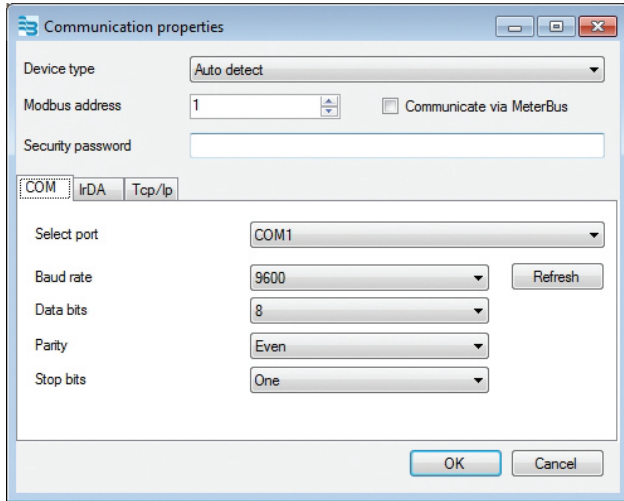
#### RS232 Link File Extraction

1. Identify / Configure the meter's communication settings:
  - a. Navigate to *Communications > Interface*.
  - b. Set the interface to **MODBUS**.

**NOTE:** The interface must be set to MODBUS. All other settings can be set as desired by the operator and must match those settings of the software tool.

- c. Record or change other interface parameters (parity and baud rate).
2. Connect the supplied RS232 cable into the RS232 connector of the meter. Either connect the serial connector to a COM port or connect it to the USB adapter.
  3. Open the Flow Meter Tool installed on the laptop or PC. Go to *Start > All Programs > Badger Meter* to open the Flow Meter Tool application.
  4. To configure the Flow Meter Tool software communication settings:
    - a. Select **Communication Settings**.





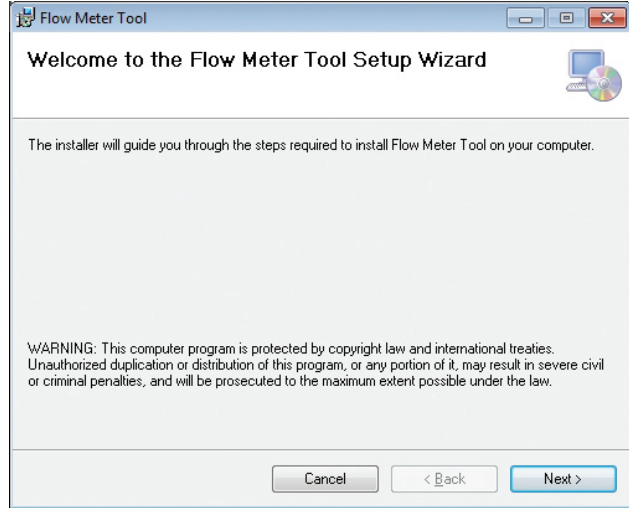
- b. Change the following parameters as necessary to align with the meter settings:
  - MODBUS ADDRESS (Node Address)
  - BAUD RATE (9600)
  - DATA BITS (default is 8)
  - PARITY
  - STOP BITS (default is 1)
- c. Select **OK** to confirm the configuration of the communication port. Make sure you select the correct COM port.

**NOTE:** The M1000 communicates via the COM port. TCP/IP is not supported.

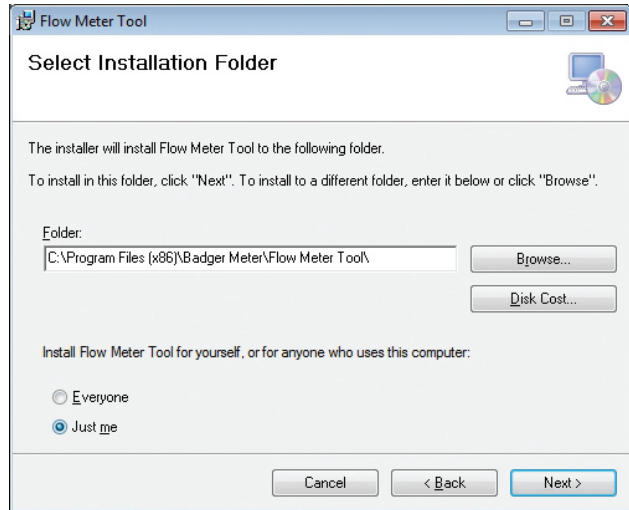
5. To extract the event files:
  - a. Select **Download Flowmeter Data**.
  - b. Select the **Totalizer and Error Log** tab.
  - c. Select **Download**.
  - d. Optional: Select **Save as Excel file...** for each event file to save the history of events.
  - e. Select the **Startup Log** tab.
  - f. Select **Download**.
  - g. Optional: Select **Save as Excel file...** for each event file to save the history of events.
  - h. Select the **Configuration Event Log** tab.
  - i. Select **Download**.
  - j. Optional: Select **Save as Excel file...** for each event file to save the history of events.
  - k. Select **Cancel** to exit this application window.

## INSTALLING THE FLOW METER TOOL

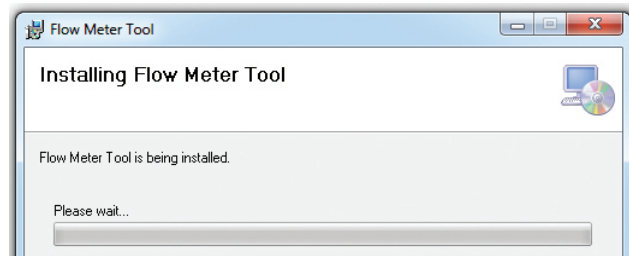
1. Insert the CD containing the Flow Meter files. The autorun tool displays the Welcome screen.
2. Click **Next** to confirm that you want to install the tool.



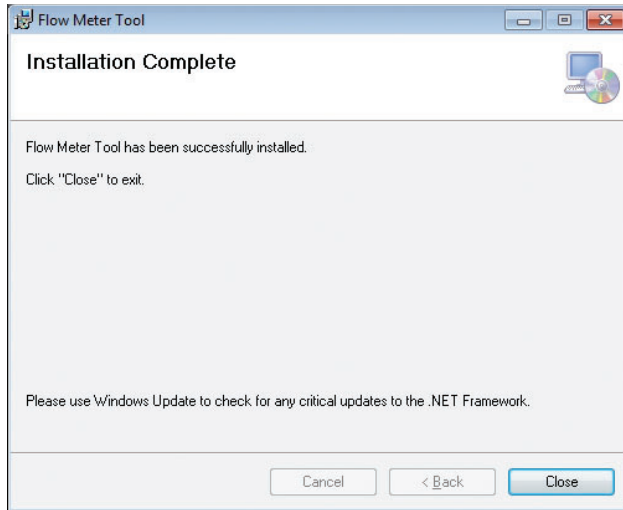
3. On the *Select Installation Folder* screen, select the folder where you would like the tool installed. Click **Next**.



4. Wait while the tool installs.



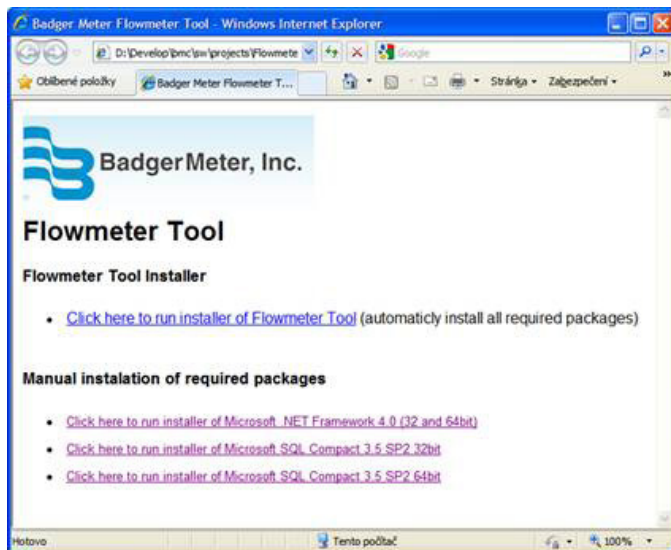
5. When the installation is complete, click **Close**.



## ALTERNATE FLOW METER TOOL INSTALLATION METHOD

If the CD does not automatically open:

1. Navigate to the CD disk location.
2. Click on the **Badger Meter Flow Meter Tool** folder to open it.
3. Double-click the **index.htm** file to open it.
4. On the *Flow Meter Tool* window, select **Click here to run installer of Flow Meter tool**.



5. Perform Steps 3 through 5 under "Installing the Flow Meter Tool" on page 2 in this document to complete the installation.

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**The Americas | Badger Meter** | 4545 West Brown Deer Rd | PO Box 245036 | Milwaukee, WI 53224-9536 | 800-876-3837 | 414-355-0400  
**México | Badger Meter de las Americas, S.A. de C.V.** | Pedro Luis Ogazón N°32 | Esq. Angelina N°24 | Colonia Guadalupe Inn | CP 01050 | México, DF | México | +52-55-5662-0882  
**Europe, Middle East and Africa | Badger Meter Europa GmbH** | Nurtinger Str 76 | 72639 Neuffen | Germany | +49-7025-9208-0  
**Europe, Middle East Branch Office | Badger Meter Europe** | PO Box 341442 | Dubai Silicon Oasis, Head Quarter Building, Wing C, Office #C209 | Dubai / UAE | +971-4-371 2503  
**Czech Republic | Badger Meter Czech Republic s.r.o.** | Mařikova 2082/26 | 621 00 Brno, Czech Republic | +420-5-41420411  
**Slovakia | Badger Meter Slovakia s.r.o.** | Racianska 109/B | 831 02 Bratislava, Slovakia | +421-2-44 63 83 01  
**Asia Pacific | Badger Meter** | 80 Marine Parade Rd | 21-06 Parkway Parade | Singapore 449269 | +65-63464836  
**China | Badger Meter** | 7-1202 | 99 Hangzhong Road | Minhang District | Shanghai | China 201101 | +86-21-5763 5412