Event101A
Event Data Logger

PRODUCT USER GUIDE

MADGETECH
WE BUILD DATA LOGGERS

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PRODUCT USER GUIDE

Product Overview

The Event101A offers an input range of up to 30 V, a reading rate of 4 Hz and a storage capacity of 465,578 readings with ultra-high speed data download capability. Using the MadgeTech Data Logger Software, the Event101A can be also be configured to utilize the memory wrap option to extend deployment capability or program the device for delayed start up to 18 months in advance.

Installation Guide

Installing the Interface Cable

IFC200 (sold separately) — Insert the device into a USB port. The drivers will install automatically.
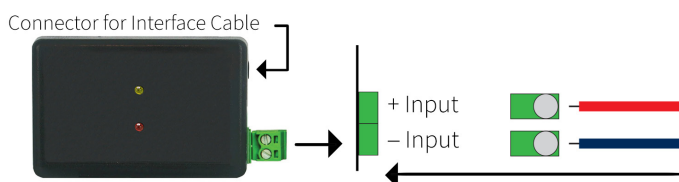
Installing the Software

The Software can be downloaded. Follow the instructions provided in the Installation Wizard.

Wiring the Data Logger

Wiring Options

The Event101A has a two-position removable screw terminal connection. The Event101A accepts 2-wire configurations.

Warning: Note the polarity instructions. Do not attach wires to the wrong terminals.

Connector for Interface Cable

+ Input
− Input

Device Operation

Connecting and Starting the Data Logger

1. Once the software is installed and running, plug the interface cable into the data logger.

2. Connect the USB end of the interface cable into an open USB port on the computer.

3. The device will appear in the Connected Devices list. Highlight the desired data logger.

4. For most applications, select **Custom Start** from the menu bar and choose the desired start method, reading rate and other parameters appropriate for the data logging application and click **Start**.

   - **Quick Start** applies the most recent custom start options
   - **Batch Start** is used for managing multiple loggers at once
   - **Real Time Start** stores the dataset as it records while connected to the logger

5. The status of the device will change to **Running**, **Waiting to Start** or **Waiting to Manual Start**, depending upon your start method.

6. Disconnect the data logger from the interface cable and place it in the environment to measure.

Note: The device will stop recording data when the end of memory is reached or the device is stopped. At this point the device cannot be restarted until it has been re-armed by the computer.

Downloading Data from a Data Logger

1. Connect the logger to the interface cable.

2. Highlight the data logger in the Connected Devices list. Click **Stop** on the menu bar.

3. Once the data logger is stopped, with the logger highlighted, click **Download**.

4. Downloading will offload and save all the recorded data to the PC.

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Engineering Units

Engineering units are used to convert one measurement reading to another. The MadgeTech software allows for software level Engineering Units (conversion applied to data after download). Certain devices have device level Engineering Units, which upon download automatically appear in the chosen unit of measure. Please refer to the Engineering Units Video on for step-by-step setup instructions.

Alarm Settings

To change the settings for the alarm:

1. Select **Alarm Settings** from the **Device Menu** in the MadgeTech Software. A window will appear allowing to set the high and low alarms and warning alarms.

2. Press **Change** to edit the values.

3. Check **Enable Alarm Settings** to enable the feature and check each high and low, warn and alarm box to activate it. The values can be entered in the field manually or by using the scroll bars.

4. Click **Save** to save the changes. To clear an active alarm or warn, press the **Clear Alarm** or **Clear Warn** button.

5. To set an alarm delay, enter the duration of time into the **Alarm Delay** box in which the readings can be outside of the alarm parameters.

Set Password

To password protect the device so that others cannot start, stop or reset the device:

1. In the **Connected Devices** panel, click the device desired.

2. On the **Device** Tab, in the **Information** Group, click **Properties**. Or, right-click the device and select **Properties** in the context menu.

3. On the **General** Tab, click **Set Password**.

4. Enter and confirm the password in the box that appears, then select **OK**.

LED Indicators

Green LED blinks: 10 seconds to indicate logging and 15 seconds to indicate delay start mode.

Red LED blinks: 10 seconds to indicate low battery and/or memory and 1 second to indicate an alarm condition.

Multiple Start/Stop Mode Activation

- **To start device:** Press and hold the pushbutton for 5 seconds, the green LED will flash during this time. The device has started logging.

- **To stop the device:** Press and hold the pushbutton for 5 seconds, the red LED will flash during the this time. The device has stopped logging.

Device Maintenance

Battery Replacement

Materials: Small Phillips Head Screwdriver and a Replacement Battery (LTC-7PN)

1. Puncture the center of the back label with the screw driver and unscrew the enclosure.

2. Remove the battery by pulling it perpendicular to the circuit board.

3. Insert the new battery into the terminals and verify it is secure.

4. Screw the enclosure back together securely.

Note: *Be sure not to over tighten the screws or strip the threads.*

Recalibration

The Event101A has a digital input signal and cannot be calibrated. A certificate of conformance can be provided.

NEED HELP?

Product Support & Troubleshooting:

- Visit our Resources online

MadgeTech 4 Software Support:

- Refer to the built-in help section of the MadgeTech 4 Software.
- Download the MadgeTech 4 Software Manual