

## OM-50 Series Portable Low Cost Data Loggers Part of the NOMAD® Family

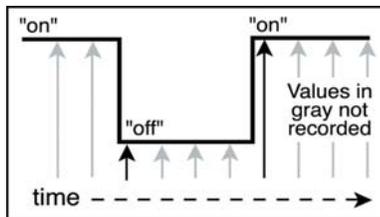
# \$76

Basic Unit



- ✓ Model OM-51 Monitors Contact Closures
- ✓ Model OM-52 for Motor On/Off Applications

OM-50 Series data loggers record when devices change between on and off or open and closed states and store the time, date and state for each change (the black arrows in the diagram below show when data is recorded).



OM-51 monitors contact closures

These data loggers have two LED indicator lights, one red and one green. One of these LED's will blink every two seconds. If the contact is open or the device is off, the red LED will blink. If the contact is closed or the device is on, then the green LED will blink. Although the LED's blink every other second, the state is checked every half second, with state changes recorded as detected. Simply connect the data logger to your PC using the RS-232 cable and download stored data using the Windows software.

### Specifications

#### GENERAL

#### Measurement Capacity:

2000 state changes

#### Time Resolution: 0.5 seconds

#### Minimum State Duration:

0.5 seconds

#### Memory Modes: Stop

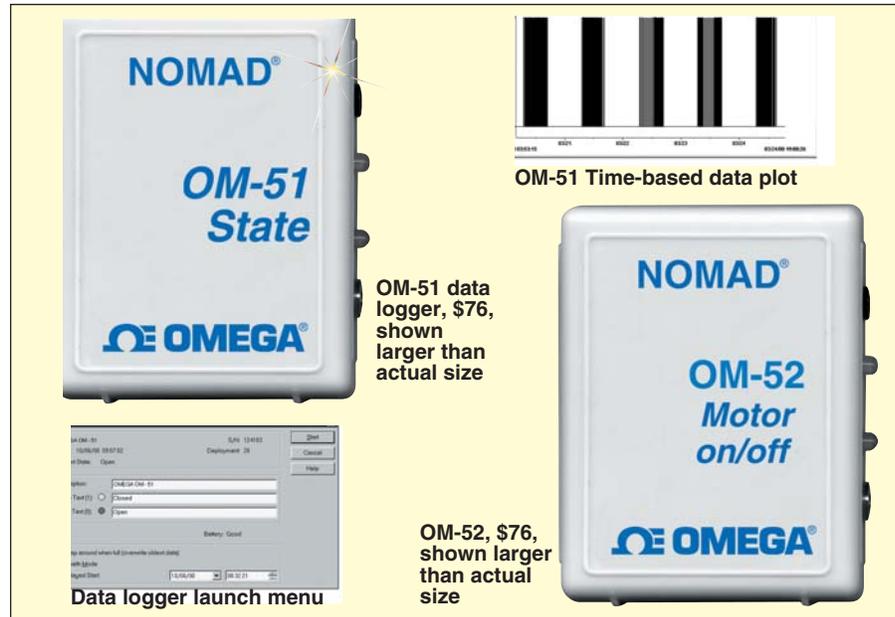
when full, wrap-around when full (user selectable)

#### Memory: Non-volatile

EEPROM memory retains data even if battery fails

#### Operation: Blinking LED

lights show current state



**Time Accuracy:**  $\pm 1$  minute per week at 20°C (68°F)

#### Operating Temperature:

-20 to 70°C (-4 to 158°F)

#### Operating Humidity:

0 to 95% non-condensing

#### Storage Temperature:

-20 to 70°C (-4 to 158°F)

#### Power: 3.6 V lithium battery

#### Battery Life: 1 year

#### Dimensions: 68 x 48 x 19 mm

(2.4 H x 1.9 W x 0.8 D )

#### Weight: 29 g (1 oz)

### Measurement Specifications

#### OM-51 STATE DATA LOGGER

#### Inputs (two inputs):

A magnetic sensor mounted in the data logger and an external cable for detecting contact closures (external cable is included).

#### Spacing Between Data logger and External Magnet:

Closed, less than or equal to 3/4"; open, greater than or equal to 3/4" (external magnet is included)

**External Contact Input:** Passive relay switch or contact closure

#### OM-52 MOTOR ON/OFF

#### DATA LOGGER

#### Sensor Type:

AC field sensor Magnetic Field Threshold: approx. 2 Gauss at 60 Hz; the logger will typically work with AC motors drawing 1A or more

**Mounting:** Mount the data logger on or close to the motor housing or to one phase of the power line to the equipment being monitored

**Angular Response:** The data logger is sensitive to that part of the AC field that is perpendicular to the datalogger's face