

# iLog Current Data Logger

## Product Specifications



### OVERVIEW

The iLog Current Data Logger is low cost, high accuracy, battery powered, stand-alone 25mA current data logger. The logger records up to 4 mega-byte of data and stores them in non-volatile flash memory for later retrieval.

Input current signal can be from sensors, transducers, transmitters or any other common current sources.

Its aluminum enclosure makes it excellent in the harshest industrial environment. Plug & Play USB port and versatile custom equation simplify communications and engineering unit conversion.

16-bit ADC makes it well suited for science and laboratory applications where precise and accurate measurements are critical.

Simply plug the logger to computer's USB port, and the software automatically recognizes it and handles the configuration, downloading, graph viewing and more...

### FEATURES

#### High Data Resolution:

The 16-bit analog-to-digital converter meets most high-resolution requirements.

#### Large Memory Size:

The 4-Mega-Byte Memory stores years of measurements.

#### Free Upgrade of Software:

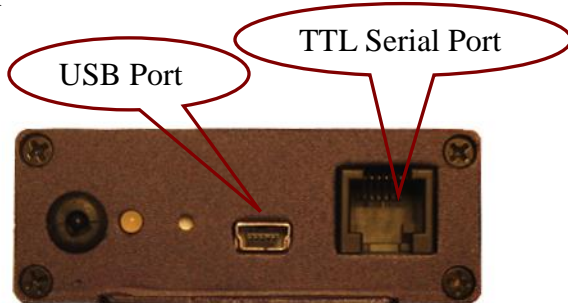
Both firmware and PC software are free for upgrade by couple of mouse clicks, keeping

the logger and software always up-to-date with new features and bug fixes.

### Multiple Communication Ports:

The iLog data loggers can be accessed via USB, Serial Port, MODEM, or Ethernet connections with auto baud rate of up to 115 kbps.

Its on-board TTL serial port and USB interfaces meet most communication requirements.



### 12-Year Battery Life:

The internal lithium battery provides over 12 years of instantaneous logging operation when sampling at an interval of one minute.

### Fast Sampling Mode:

The iLog data loggers can log data with the sampling interval as fast as 20 milliseconds, replacing data acquisition devices.

### Alarm and Excitation Output:

The iLog data logger notifies the alarm condition over alarm terminal strips or

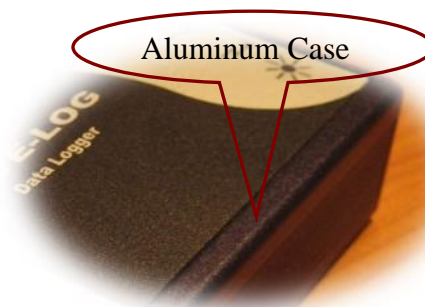
communication lines. (USB, Serial Port, MODEM)

Excitation control turns on the power of external transmitter/transducer only when the logger is sampling.



### Rugged Physical Design:

The rugged aluminum enclosure makes the iLog data loggers perfect in the harshest industrial environment.



## SITEVIEW SOFTWARE FEATURES

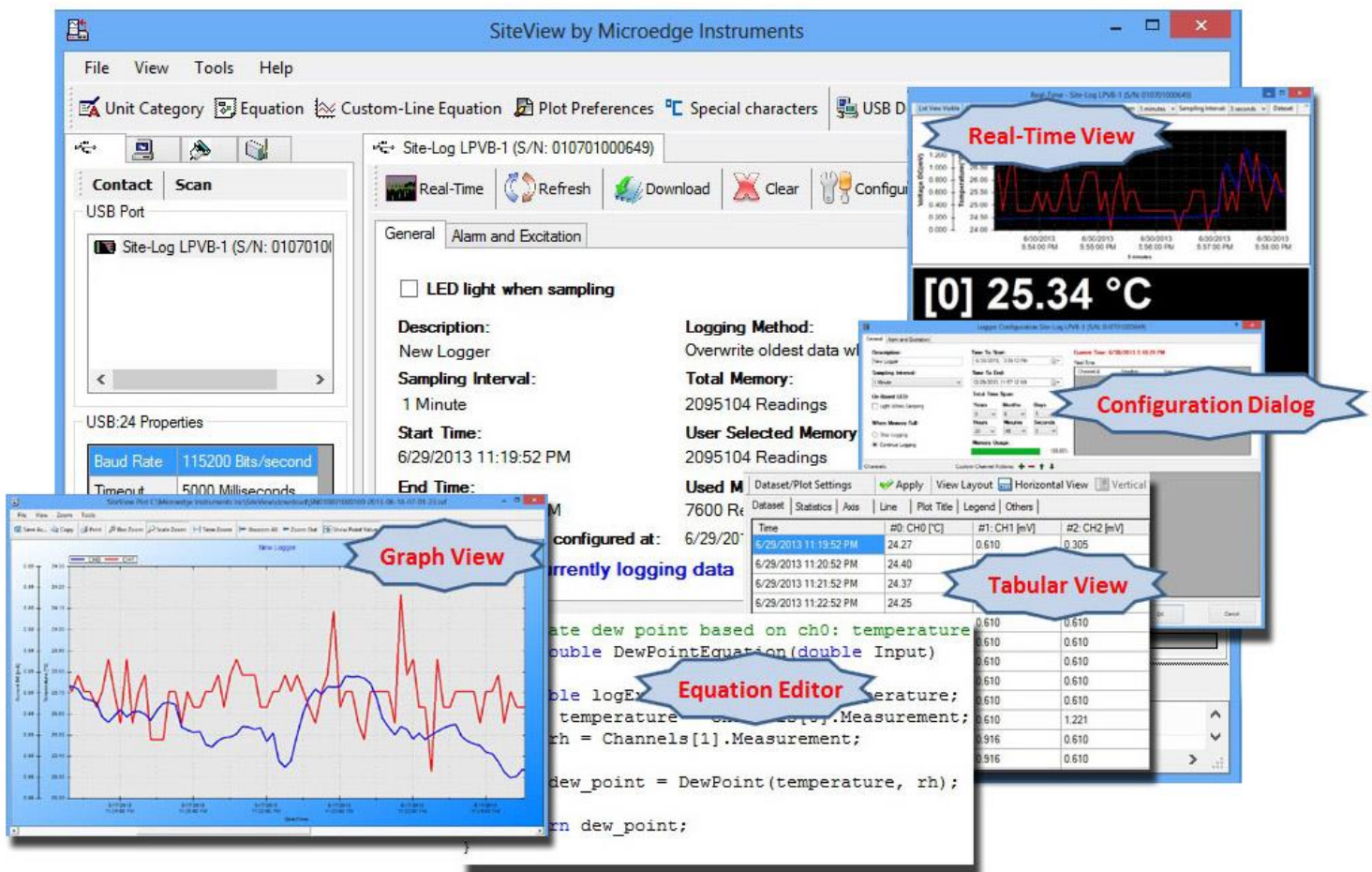
SiteView is a Windows-based application which works with iLog Series data loggers for downloading, configuration, data analyzing and plotting.

Its user-friendly graphic interface plus powerful functionalities fit both novice and advanced users.

Besides basic data logger configuration, downloading, SiteView includes other powerful features like:

- ❖ Multiple Communications Interfaces: USB, Serial Port, Ethernet...

- ❖ Custom Equation Editor with C# language meet any complicated measurement requirements
- ❖ Multiple Data Views and Custom Formatting of Axis, Line, Annotation & Comments.
- ❖ Real-Time Chart View/Recording and User Calibration
- ❖ Export to CSV, TEXT, BMP, JPG, TIF, PNG, GIF file format.



## SPECIFICATIONS

|                               |   |
|-------------------------------|---|
| <b>Product Identification</b> |   |
| Product Name                  | iLog Current Data Logger  |
| Model                         | iCDC-25   |
| <b>Inputs</b>                 |   |
| Connections                   | Pluggable terminal block current input, alarm and excitation control outputs.   |
| Channels                      | One on-board thermistor temperature (-40°C ~ 70°C, -40°F ~ 158°F).<br>One external 25mA current channel   |
| Resolution                    | 0.0018%   |
| Accuracy                      | Internal thermistor channel: $\pm 0.2^{\circ}\text{C}$ (0°C ~ 70°C, 32°F ~ 158°F)<br>External current channels: $\pm 0.1\%$ @ 25°C  |
| Load Resistor                 | 12 Ohms   |
| Overcurrent Protection        | Up to $\pm 100\text{mA}$  |
| <b>Alarms</b>                 |   |
| Channel Alarms                | Two editable alarm thresholds per channel.  |
| Alarm Outputs                 | ALARM1 & A2/EXT terminal strips can be configured as alarm outputs.<br>Alarm-On: MOSFET(N-Channel) switch on.<br>Alarm-Off: MOSFET(N-Channel) switch off.<br>Max Power: 200mA @ 24VDC.<br>With purchase of SiteView software, the Site-Log can report alarm status to host PC via USB, Modem or Ethernet Device Server. |
| Alarm-On Delay:               | Programmable 0 - 10 minutes delay with 1-minute increments.   |
| Alarm Indicator               | On-board LED lights in red when in alarm condition.   |
| <b>On-board Memory</b>        |   |
| Capacity                      | 4 Mega bytes (2 Mega measurements).   |
| Data Retention                | Over 20 years.  |
| <b>Sampling &amp; Logging</b> |   |
| Sampling Interval             | 20 milliseconds to 12 hours user selectable.  |
| Logging Mode                  | Stop recording or FIFO when memory is full.   |
| Logging Activation            | Programmable instant, start delay or field push-button activation.  |
| <b>Communications</b>         |   |
| Interface                     | USB(USB cable included).<br>AUX(RJ11) for direct TTL level communications.<br>With purchase of Site USB DeviceServer, the Site-Log logger can be connected to Ethernet for remote access.   |
| Baud Rate                     | Auto-detect baud rate from 2400 to 115200 bps on both USB and AUX ports.  |
| <b>Battery</b>                |   |
| Power                         | Built-in 3.6V Lithium Battery.  |
| Life Cycle                    | 12 years based on 1 minute sampling interval  |
| <b>Software</b>               |   |
| Site View (Sold Separately)   | Configuration, downloading, plotting, real-time view, custom calibration and custom equation.   |

|                       |  |
|-----------------------|--|
| Software Requirements | Computer with 1.0 GHz or faster processor<br>256 MB Memory or higher<br>1.0 GB of available hard-drive space or higher<br>Windows XP with SP2 or later, Vista, Window 7<br>At least one USB port or one COM port |
| <b>Physical</b>       |  |
| Material              | Aluminum enclosure.  |
| Dimension             | 88 X 64.2 X 24 mm (3.46 X 2.53 X 0.95 inches)  |
| Weight                | 200g.  |
| Mounting              | Probe/Wall-mount holes for hanging/mounting.   |
| <b>Others</b>         |  |
| LED Indicator         | Tri-Color LED: (can be disabled for power saving)<br>Normal Sampling: green when sampling<br>Alarm: red when sampling<br>Low Battery: amber when sampling.   |
| Excitation Control    | A2/EXT terminal strip can be configured as excitation control output for driving the power of connected devices.<br>Warm-up delay Interval settings: 10 to 240 seconds with 10-second increments.                |
| Operating Environment | -40 ~ +70°C (-40°F ~ 158°F), 0~95%RH non-condensing.   |
| Clock Accuracy        | ± 1 minute per month.  |
| Approvals             | CE, FCC  |

## LOGGING CAPACITY TABLE

| Sampling Interval | Logging Capacity | Sampling Interval | Logging Capacity |
|-------------------|------------------|-------------------|------------------|
| 1 minute          | 727 days         | 1 second          | 12 days          |
| 10 seconds        | 121 days         | 100 ms            | 28 hours         |

## ORDERING INFORMATION

| Model   | Description              |
|---------|--------------------------|
| iCDC-25 | iLog Current Data Logger |