PRECISE-LOG PL-CW

Product specifications

OVERVIEW

The PRECISE-LOG PL-CW is an 8-channel, battery powered, standalone and WIFI-enabled current data logger. The logger records eight external current sources and saves data in 8MB memory.

Its aluminum enclosure makes it excellent in the harshest industrial environment.

Embedded WIFI module allows remote data monitoring and downloading.

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

Simply plug the logger to WIFI covered area and access it from your computer for 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 8-Mega-Byte Memory stores years of measurements.

❖ **Programmable Input Ranges:**

Two software configurable input ranges (4-20mA, 0-50mA) cover most measuring applications.

❖ **Easy Access:**

One Plug& Play USB port makes communications with PC SiteView software super easy. On-board WIFI module connects to local network wirelessly, allowing remote monitoring and downloading.

❖ **10-Year Battery Life:**

The internal lithium battery provides over 10 years of instantaneous logging operation when sampling at an interval of one minute.

❖ **2-IN-1 Design:**

The logger can operate as portable standalone data logger and be powered by internal battery. Or when powered by external 5VDC power supply, the logger automatically connects to WIFI network and be ready for remote access.

❖ **Rugged Physical Housing:**

The rugged aluminum enclosure makes the PRECISE-LOG data loggers perfect in the harshest industrial environment.

SiteView Software Overview

SiteView is a PC based application works with all MEI data loggers for downloading, configuration and data analyzing and plotting.
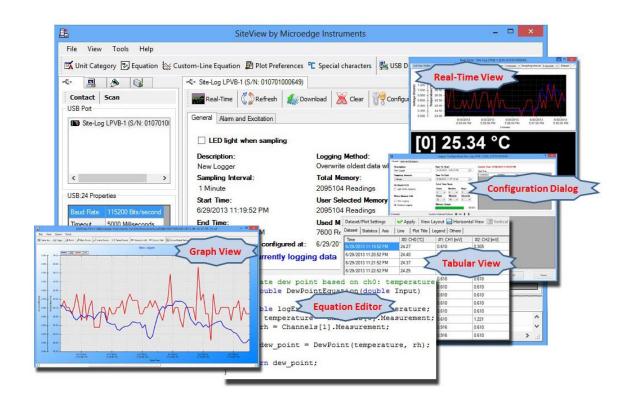
Its user-friendly graphic interface plus powerful functionalities fit both novice and advanced users.

The versatility of custom equation and custom-line equation handle complicated measurement requirements.

SiteView is compatible with Window XP, Vista, 7, 8, 10 operating systems.

FEATURES:

- ❖ Support USB, Serial port and Ethernet connections for easy local and remote access
- ❖ Fast communication speed up to 115200 bps makes downloading fast
- ❖ Real-time view and chart recording replaces chart recording device
- ❖ Custom equation and custom-line equation solves scientific and laboratory algorithm difficulties
- ❖ Zoom in/zoom out, annotation/label of graph functions provide detailed view of data
- ❖ Multiple file loading allows easy data comparison
- ❖ Dynamic statistics provides detailed information of current zoomed view
- ❖ Scheduled Download automatically backups data regularly to system database
- ❖ Export to CSV, TXT, BMP, JPG, TIF, PNG, GIF file formats.

Specification Details

Product Identification	
Product Name	PRECISE-LOG
Model	PL-CW
Inputs	
Connections	Pluggable terminal block for eight external channels
Channels	Eight external current DC inputs. Software programmable input range selections for each channel: 4-20mA, 0-50mA
Resolution	0.0018%
Accuracy	+/- 0.1% FSR @ 25°C
Load Resistor	12 Ohms
Over-current Protection	+/- 100mA
Alarms	
Channel Alarms	Two editable alarm thresholds per channel.
Alarm Indicator	On-board LED lights in red when in alarm condition.
On-board Memory	
Capacity	8 Mbytes (4 Mega measurements).
Data Retention	Over 20 years.
Sampling & Logging	
Sampling Interval	1 second 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.
Communications	
Interface	USB(USB cable included). WIFI Module (USB wall adapter included)
WIFI Module[1]	Standard: 802.11b/g/n, Frequency Range: 2.412 – 2.484GHz Transmit Power: 11-18 dBm Receive Sensitivity: -82 to -93 dBm Security: WEP/WPA-PSK/WPA2-PSK Encryption: WEP64/WEP128/TKIP/AES Enabled/Disabled by SiteView software
Battery	
Power	Built-in 3.6V Lithium Battery.
Life Cycle	10 years based on 1 minute sampling interval.
Software	
SiteView [2]	Configuration, downloading, plotting, scheduled-download, real-time view, custom calibration and custom equation.
Software Requirements	Computer with 1.0 GHz or faster processor 1 GB Memory or higher 10 GB of available hard-drive space or higher Windows XP with SP2 or later, Vista, Window 7, 8, 10 At least one USB port
Physical	
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.

Others	
LED Indicator	Tri-Color LED: (can be disabled for power saving) Normal Sampling: green when sampling Alarm: red when sampling Low Battery: amber when sampling.
Operating Environment	-40 ~ +70°C (-40°F ~ 158°F), 0~95%RH non-condensing.
Clock Accuracy	+/- 1 minute per month.
Approvals	CE, FCC
Product Link	http://www.microedgeinstruments.com/pl-cw.php

[1]: Must be powered by external 5VDC power supply.

[2]: Sold separately.

LOGGING CAPACITY

Sampling Interval	Enabled Channel	Logging Capacity	Sampling Interval	Enabled Channel	Logging Capacity
1 minute	1	8 years	1 second	1	48 days
1 minute	2	4 years	1 second	2	24 days
1 minute	8	1 year	1 second	8	6 days
10 seconds	1	485 days			
10 seconds	2	242 days			
10 seconds	8	60 days			