

404 – 1688 152nd Street Surrey, BC Canada V4A 4N2 Phone: 604.424.9092 Toll Free: 1.877.352.9158 Fax: 778.807.5098 info@microedgeinstruments.com www.microedgeinstruments.com

PRECISE-LOG PL-CW



OVERVIEW

The PRECISE-LOG PL-CW is an 8channel, battery powered, standalone and WIFI-enabled current data logger/Modbus TCP server. 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. The data logger can be enabled by Modbus TCP protocol and become a Modbus TCP server.

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...

Product specifications

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 provides WIFI access point or 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.

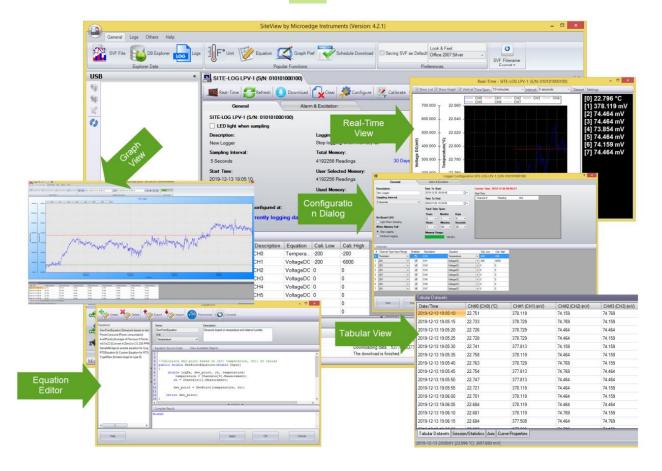
Its user-friendly graphic interface plus powerful functionalities fit both novice and advanced users.

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):				
	Standard Server Mode: join existing WIFI Access Point.				
	AccessPoint Server Mode: create AP for PC to join.				
	Modbus Protocol for both STA and AP mode				
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	$-40 \sim +70^{\circ}$ C (-40° F ~ 158°F), 0~95% RH non-condensing.		
Clock Accuracy	+/- 1 minute per month.		
Approvals	CE, FCC		
Product Link	https://www.microedgeinstruments.com/pl-cw.php		

[1]:

Must be powered by external 5VDC power supply.

[2]: Sold separately.

Please refer to the product page for Modbus specifications: https://www.microedgeinstruments.com/pl-cw.php

LOGGING CAPACITY

Sampling	Enabled	Logging	Sampling	Enabled	Logging
Interval	Channel	Capacity	Interval	Channel	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			