

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-HW



OVERVIEW

The PRECISE-LOG PL-HW is an 8-channel, battery powered, standalone and WIFI-enabled thermistor data logger/Modbus server. The logger measures eight external thermistors and saves data in 8-MB memory.

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.

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

Simply power the logger in 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 Equations

Configurable equations for temperature, resistance and more...

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.

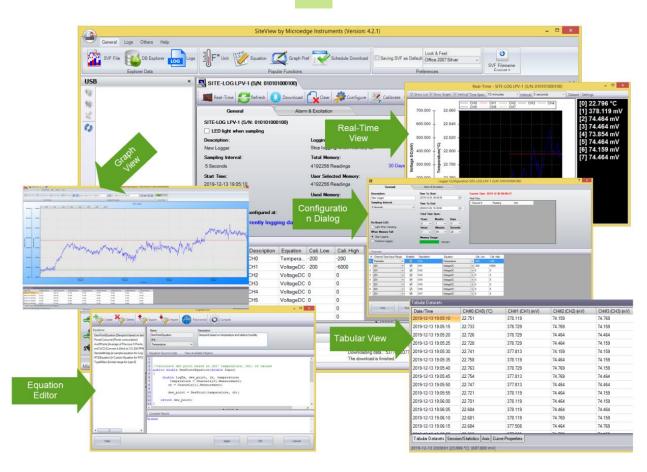
Its user-friendly graphic interface plus powerful functionalities fit both novice and advanced users.

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-HW			
Inputs	- 2 - 11			
Connections	Pluggable terminal block for eight external channels			
Channels	Eight external thermistor/resistor inputs. (10000 ohms NTC			
Chamicis	thermistor recommended)			
Resolution	0.0018%			
Accuracy	+/- 0.2°C (0°C ~ 70°C, 32°F ~ 158°F) (for 10K NTC thermistor,			
Accuracy	does not include thermistor probe error)			
Alarms	does not include thermistor probe error)			
	m 19,11 1 1 1 1 1 1			
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).			
Interface	WIFI Module (USB wall adapter included):			
	Standard Server Mode: join existing WIFI AP.			
	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,			
VVII I IVIOGGIE	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			
	Can be Enabled/Disabled by SiteView software			
Battery	Can be Enabled Disabled by Site view software			
Power	Built-in 3.6V Lithium Battery.			
Life Cycle	10 years based on 1 minute sampling interval in stand-alone mode.			
-	To years based on 1 minute sampling interval in stand-alone mode.			
SiteView [2]	Configuration downloading pletting scheduled download and			
Sileview	Configuration, downloading, plotting, scheduled-download, real-			
C C D	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 $\sim 158^{\circ}$ F), 0 $\sim 95\%$ RH non-condensing.		
Clock Accuracy	+/- 1 minute per month.		
Approvals	CE, FCC		
Product Link	https://www.microedgeinstruments.com/pl-hw.php		

Must be powered by external 5VDC power supply via Mini-USB Port.

[2]: Sold separately.

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

LOGGING CAPACITY

Sampling Interval	Enabled Channel	Logging Capacity	Sampling Interval	Enabled Channel	Logging Capacity
	Chamie	Capacity	Illiel val	Chamie	
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			

[1]: