

Product Datasheet - Technical Specifications



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PRECISE-LOG PL-HW



OVERVIEW

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

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.

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 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.

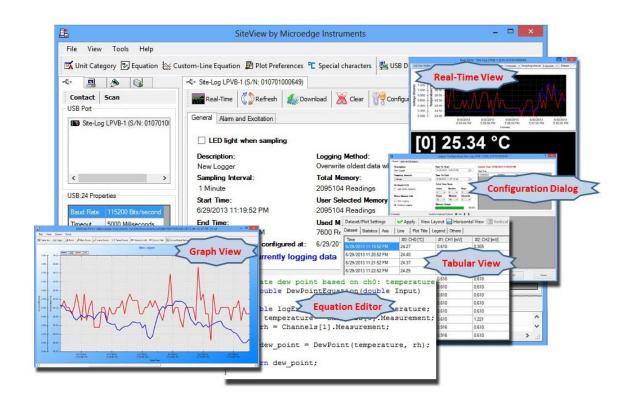
Its user-friendly graphic interface plus powerful functionalities fit both novice and advanced users.

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 Name PRECISE-LOG Model PL-HW Inputs Connections Pluggable terminal block for eight external channels Eight external thermistor/resistor inputs. (10000 ohms NTC thermistor recommended) Resolution 0.0018% Accuracy +/- 0.2% FSR @ 25°C 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 (USB wall adapter included) WIFI Module (USB wall adapter included) 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: WEPF6-4/WEP128/TKIP/AES Can be Enabled/Disabled by Site View software Battery Power Built-in 3.6V Lithium Battery. Life Cycle 10 years based on 1 minute sampling interval in stand-alone mode. Software Site View ¹²¹ 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 Un 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.	Product Identification					
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	Alarm: red when sampling		
	Low Battery: amber when sampling.		
Operating Environment	$-40 \sim +70$ °C (-40 °F ~ 158 °F), $0\sim95$ %RH non-condensing.		
Clock Accuracy	+/- 1 minute per month.		
Approvals	CE, FCC		
Product Link	http://www.microedgeinstruments.com/pl-hw.php		

[1]: Must be powered by external 5VDC power supply via Mini-USB Port.

[2]: Sold separately.

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			