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PRECISE-LOG PL-H

Product specifications

OVERVIEW

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

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 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 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.

- **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 switches to using the external power supply, making the battery life much longer.

- **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.

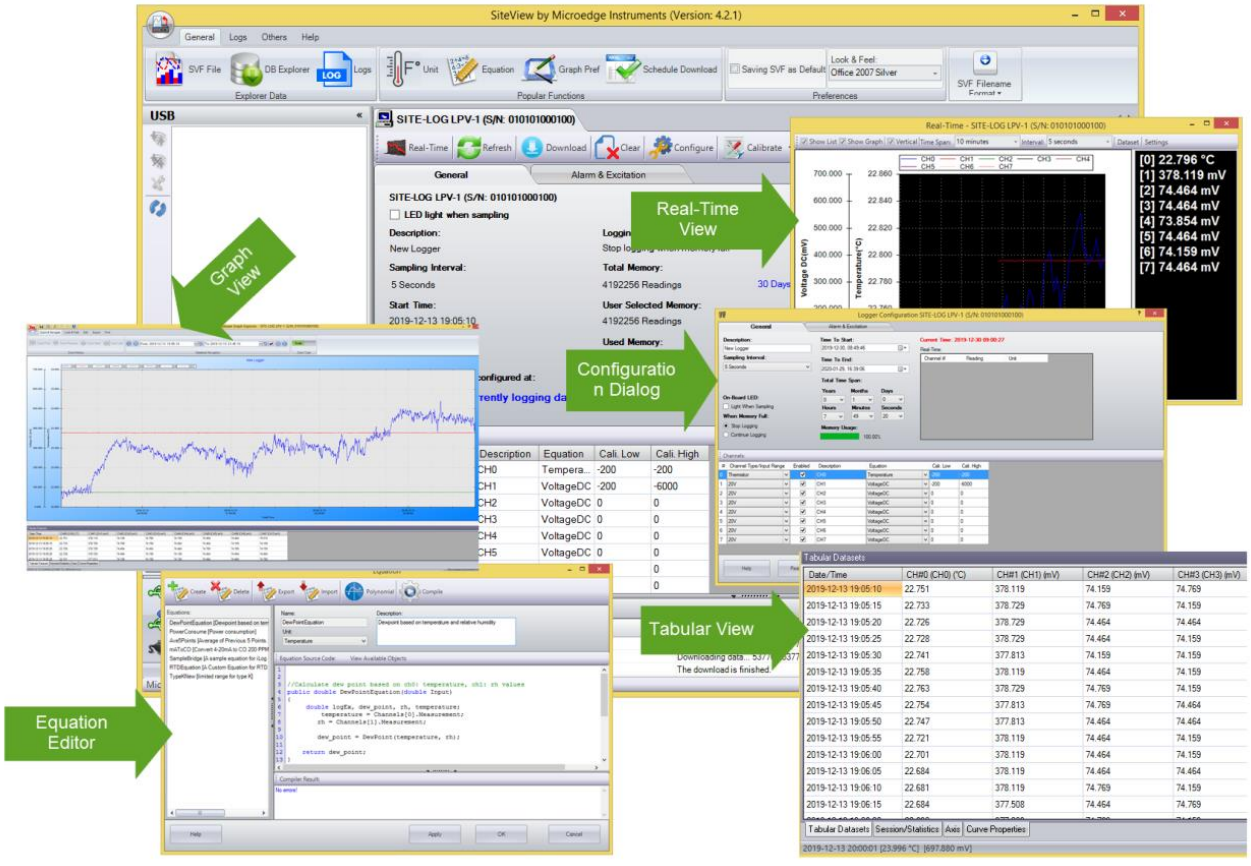
Its user-friendly graphic interface plus powerful functionalities fit both novice and advanced users.

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

SiteView is compatible with Window XP, Vista, 7, 8, 10, 11 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-H
Inputs	
Connections	Pluggable terminal block for eight external channels
Channels	Eight external thermistor/resistor inputs. (10000 ohms NTC thermistor recommended)
Resolution	0.0018%
Accuracy	+/- 0.2°C (0°C ~ 70°C, 32°F ~ 158°F) (for 10K NTC thermistor, does not include thermistor probe error)
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 AP. AccessPoint Server Mode: create AP for PC to join Modbus Protocol for both STA and AP mode
Battery	
Power	Built-in 3.6V Lithium Battery.
Life Cycle	10 years based on 1 minute sampling interval in stand-alone mode.
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, 11 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	https://www.microedgeinstruments.com/pl-h.php

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

[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			