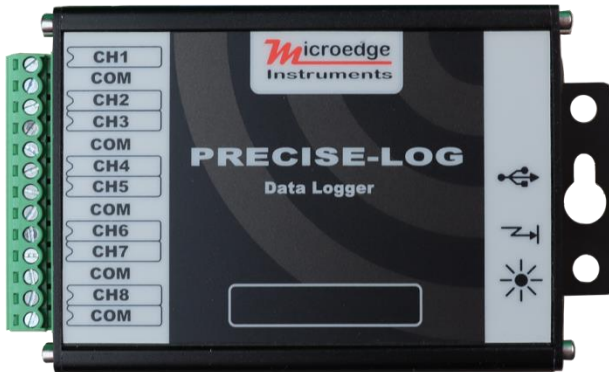


PRECISE-LOG PL-T

Product specifications



OVERVIEW

The PRECISE-LOG PL-T is an 8-channel, battery powered, standalone thermocouple data logger. The logger records the ambient temperature and eight external thermocouples and saves data in 8-MB memory.

Its on-board temperature channel provides environment monitoring and temperature compensation. Its aluminum enclosure makes it excellent in the harshest industrial environment.

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

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 Input Ranges:

Two software configurable input ranges (73mV, 18mV) cover all types of thermocouples (B, E, J, K, N, R, S, T,C).

❖ 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 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

The screenshot displays the SiteView software interface with several key components highlighted by green arrows:

- Real-Time View:** A window showing a live graph of data points over time, with a vertical axis labeled 'Voltage (mV)' and a horizontal axis for time. A data table on the right lists values for Temperature and Voltage.
- Graph View:** A window showing a historical graph of data points, with a vertical axis labeled 'Voltage (mV)' and a horizontal axis for time.
- Configuration Dialog:** A window for setting up the logger, including fields for Description, Sampling Interval, Start Time, and a table for channel configurations.
- Equation Editor:** A window for defining custom equations, showing a code editor with a sample equation for calculating dew point based on temperature and relative humidity.
- Tabular View:** A window displaying a table of recorded data points, including Date/Time, CH0 (CH0 °C), CH1 (CH1 mV), CH2 (CH2 mV), and CH3 (CH3 mV).

Date/Time	CH0 (CH0 °C)	CH1 (CH1 mV)	CH2 (CH2 mV)	CH3 (CH3 mV)
2019-12-13 19:05:10	22.751	378.119	74.159	74.769
2019-12-13 19:05:15	22.733	378.729	74.769	74.159
2019-12-13 19:05:20	22.726	378.729	74.464	74.464
2019-12-13 19:05:25	22.728	378.729	74.464	74.159
2019-12-13 19:05:30	22.741	377.813	74.159	74.159
2019-12-13 19:05:35	22.758	378.119	74.464	74.159
2019-12-13 19:05:40	22.763	378.729	74.769	74.159
2019-12-13 19:05:45	22.754	377.813	74.769	74.464
2019-12-13 19:05:50	22.747	377.813	74.464	74.464
2019-12-13 19:05:55	22.721	378.119	74.464	74.159
2019-12-13 19:06:00	22.701	378.119	74.464	74.159
2019-12-13 19:06:05	22.684	378.119	74.464	74.464
2019-12-13 19:06:10	22.681	378.119	74.769	74.159
2019-12-13 19:06:15	22.684	377.508	74.464	74.769

Specification Details

Product Identification	
Product Name	PRECISE-LOG
Model	PL-T
Inputs	
Connections	Pluggable terminal block for eight external channels
Channels	Eight external thermocouple inputs. Software programmable input range selections for each channel: -8 ~ 73mV, -2 ~ 18mV
Supported Thermocouples	B, E, J, K, N, R, S, T
Resolution	0.0018%
Accuracy	±0.1% ~ 0.2% + T/C Accuracy @ 25°C
Temperature Compensation	On-board thermistor
Over-voltage protection	+/- 20 VDC
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)
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, 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-t.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			