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## SITE-LOG LPTH-1

## **Product Specifications**



#### **OVERVIEW**

The SITE-LOG LPTH-1 is a 7-channel, battery powered, stand-alone thermistor data logger with storage up to 8 MB of data in non-volatile flash memory. It is best for 10 Kohm NTC thermistors.

Its on-board temperature channel provides environment monitoring and temperature compensation.

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

Plug & Play USB port and versatile custom equation simplify communications and engineering unit conversion. 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

Microedge Instruments Inc. 404 – 1688 152nd Street Surrey, BC, Canada, V4A 4N2 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.

#### 7-CH Plus Internal Thermistor:

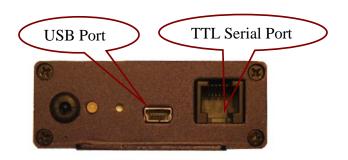
One on-board thermistor channel monitors ambient temperature. Seven external thermistor channels cover wide measurement requirements.

# Multiple Communication Interfaces:

The SITE-LOG data loggers can be accessed via USB or Ethernet connections with auto baud rate of up to 115 kbps.

Its on-board TTL serial port and USB interfaces meet most communication requirements.

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## **10-Year Battery Life:**

The internal lithium battery provides over 10 years of instantaneous logging operation when sampling at an interval of one minute.

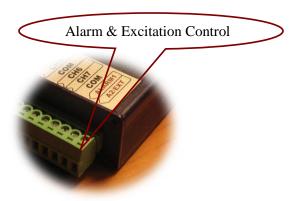
#### **Fast Sampling Mode:**

The SITE-LOG data loggers can log data with the sampling interval as fast as 20 milliseconds, replacing data acquisition devices.

#### **Alarm and Excitation Output:**

The SITE-LOG data logger notifies the alarm condition over alarm terminal strips or communication lines. (USB, Serial Port)

Excitation control turns on the power of external transmitter/transducer only when the logger is sampling.



## **Rugged Physical Design:**

The rugged aluminum enclosure and coated PCB makes the Site-Log data loggers perfect in the harshest industrial environment.



#### **SITEVIEW SOFTWARE FEATURES**

SiteView is a PC based application works with SITE-LOG Series data loggers for downloading, configuration and data analyzing and plotting.

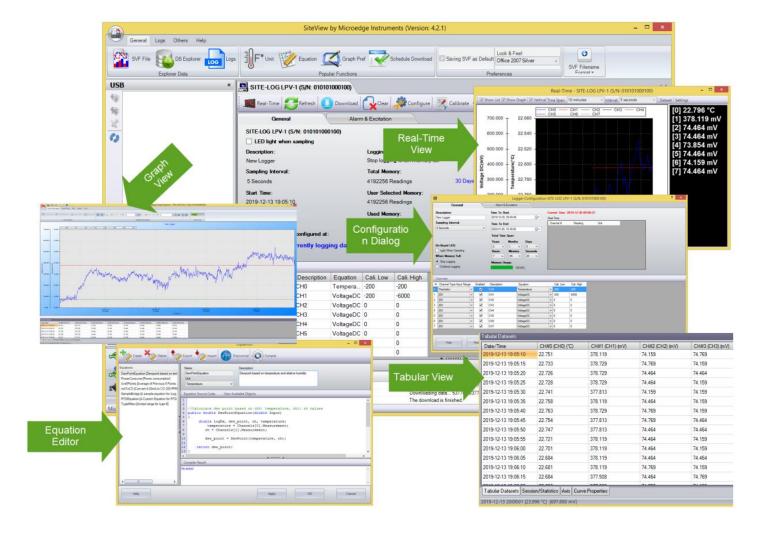
Its user-friendly graphic interface plus powerful functionalities fit both novice and advanced users.

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

#### 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
- ❖ Export to CSV, TXT, BMP, JPG, TIF, PNG, GIF file formats.



## **SPECIFICATIONS**

Product Name   Site-Log	<b>Product Identification</b>					
Inputs   Pluggable terminal block for seven external channels, excitation controls and alarm outputs.	Product Name	Site-Log				
Connections  Pluggable terminal block for seven external channels, excitation controls and alarm outputs.  One on-board thermistor temperature (-40°C ~ 70°C, -40°F ~ 158°F).  Seven external thermistor channels.  Resolution  0.0018%  Accuracy  Thermistor channels: +/- 0.2°C (0°C ~ 70°C, 32°F ~ 158°F) @ 25°C (for 10Kohm @ 25°C, does not include thermistor probe error)  Alarms  Channel Alarms  Two editable alarm thresholds per channel.  Alarm Outputs  ALARM1 & A2/EXT terminal strips can be configured as alarm outputs.  Alarm-On: MOSFET(N-Channel) switch on.  Alarm-Off: MOSFET(N-Channel) switch off.  Max Power: 200mA @ 24VDC.  Alarm Indicator  On-board LED lights in red when in alarm condition.  On-board Memory  Capacity  8 MB (4 Mega measurements).  Oata Retention  Sampling & Logging  Sampling & Logging  Sampling Interval  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).  AUX(RJ11) for direct TTL level communications.  With purchase of DeviceServer Kit, the Site-Log logger can be connected to Ethernet for remote access.  Baud Rate  Auto-detect baud rate from 2400 to 115200 bps on both USB and AUX ports.	Model					
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AUX ports.  Battery						
Battery	Baud Rate	•				
	Battery	1 - F - W-				
I DUILTII J.U Y LIUIUII DAUGI V.	Power	Built-in 3.6V Lithium Battery.				
Life Cycle 10 years based on 1 minute sampling interval.						

Software				
SiteView [2]	Configuration, downloading, plotting, real-time view, custom			
	calibration and custom equation.			
Software Requirements	Computer with 1.0 GHz or faster processor			
_	256 MB Memory or higher			
	1.0 GB of available hard-drive space or higher			
	Windows XP with SP2 or later, Vista, Window 7			
	At least one USB port or one COM port			
Physical				
Material	Aluminum enclosure.			
PCB Treatment	Conformal coating.			
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.			
Excitation Control	A2/EXT terminal strip can be configured as excitation control			
	output for driving the power of connected devices.			
	Warm-up delay Interval settings: 10 to 240 seconds with 10-			
	second increments.			
Operating Environment	$-40 \sim +70$ °C ( $-40$ °F $\sim 158$ °F), 0 $\sim 95$ %RH non-condensing.			
Clock Accuracy	+/- 1 minute per month.			
Approvals	CE, FCC			

<sup>[1]:</sup> Maximum enabled channel: 1 for 20ms interval, 2 for 30ms, 8 for 40ms or bigger interval. External power supply required if the sampling interval is less than 1 second.
[2]: Sold separately.

## **LOGGING CAPACITY TABLE**

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	100 ms	1	4 days
10 seconds	2	242 days	100 ms	2	2 days
10 seconds	8	60 days	100 ms	8	14.4 hours