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SITE-LOG LFC

Product Specifications



OVERVIEW

The SITE-LOG LFC data loggers are 7-channel, battery powered, stand-alone current DC data loggers, with storage up to 8 MB of data in non-volatile flash memory. Input current signals can be from sensors, transducers, transmitters or any other common current sources.

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 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.

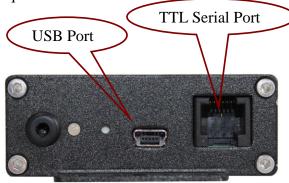
Programmable Input Ranges:

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

Multiple Communication Interfaces:

The SITE-LOG data loggers can be accessed via USB, MODEM, 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.



10-Year Battery Life:

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

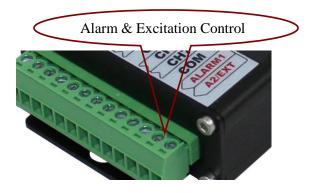
Fast Sampling Mode:

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:

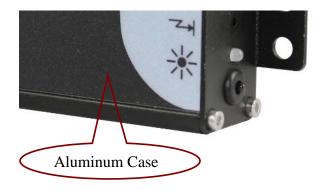
The SITE-LOG data logger notifies the alarm condition over alarm terminal strips or communication lines. (USB, Serial Port)

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

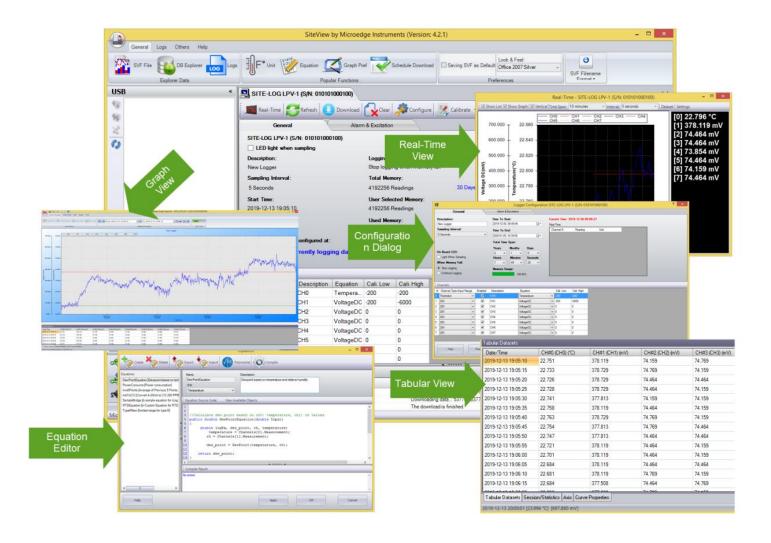
SiteView is a PC based application works with SITE-LOG Series data loggers for downloading, configuration and data analyzing and plotting.

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 Identification					
Product Name	SITE-LOG Current Data Logger				
Model	LFC-1, LFC-2				
Inputs					
Connections	Pluggable terminal block for seven external channels, excitation				
	controls and alarm outputs.				
Channels	One on-board thermistor temperature (-40°C ~ 70°C, -40°F ~				
	158°F).				
	Seven external Current DC.				
	For LFC-1: seven 4-20 mA channels.				
	For LFC-2: seven 50 mA channels.				
Resolution	0.0018%				
Accuracy	Thermistor channel: ± -0.2 °C(0°C ~ 70 °C, 32 °F ~ 158 °F)				
	4 – 20mA channel:				
	± 0.15% FSR @ 25°C				
	50mA channel:				
I 1D :	± 0.15% 2.5 – 50 mA @ 25°C, ± 0.5% 0 – 2.5 mA @ 25°C				
Load Resistor	12 Ohms				
Over-current protection	$\pm 100 \text{ mA}$				
Alarms	Im				
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.				
	With purchase of SiteView software, the SITE-LOG can report				
Alama On Dalayu	alarm status to host PC via USB, Ethernet Device Server.				
Alarm-On Delay: Alarm Indicator	Programmable 0 - 10 minutes delay with 1-minute increments.				
	On-board LED lights in red when in alarm condition.				
On-board Memory	9 Magabutas (4 Maga magguraments)				
Capacity Data Patentian	8 Megabytes (4 Mega measurements).				
Data Retention	Over 20 years.				
Sampling & Logging	20 milliogrands to 12 hours your calcatable [1]				
Sampling Interval	20 milliseconds to 12 hours user selectable. ^[1]				
Logging Mode	Stop recording or FIFO when memory is full.				
Logging Activation	Programmable instant, start delay or field push-button activation.				
Communications	Tiab/Tiab 11 ' 1 1 1)				
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			
Daud Rate	AUX ports.			
Battery	Tien polis.			
Power	Built-in 3.6V Lithium Battery.			
Life Cycle	10 years based on 1 minute sampling interval.			
Software	1 0			
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 ~ 158 °F), $0\sim95$ % RH non-condensing.			
Clock Accuracy	± 1 minute per month.			
Approvals	CE, FCC			

^{[1]:} 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	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	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