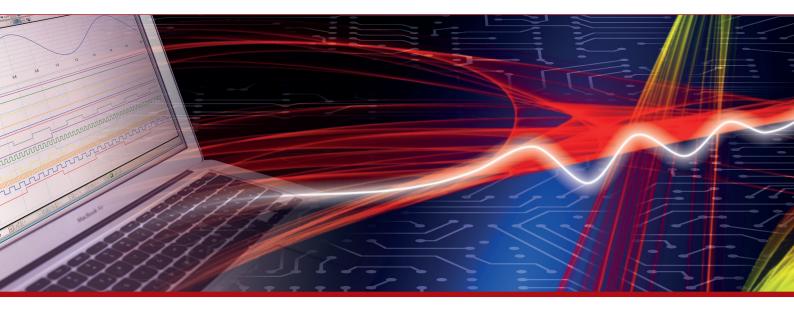


Product Datasheet - Technical Specifications



More information in our Web-Shop at > www.meilhaus.com and in our download section.

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Site-Log LFV/ LFVB Data Logger

Product Specifications



OVERVIEW

The Site-Log LFV/LFVB series data loggers are 8-channel, battery powered, stand alone voltage data loggers. The logger records up to 4 mega-byte of data and stores it in nonvolatile flash memory for later retrieval. Input voltage signals can be from sensors, transducers, transmitters or any other common voltage sources.

Featuring an aluminum enclosure and conformal coating PCB, the Site-Log data logger has excellent performance in the harshest industrial environment.

Powered by a16-bit ADC, the Site-Log data loggers are well suited to science and laboratory applications where precise and accurate measurement is critical.



FEATURES

High Data Resolution:

The 16-bit analog-to digital converter meets most high-resolution requirements.

Large Memory Size:

The 4-Mega-Byte Memory stores years of measurements.

Programmable Input Ranges:

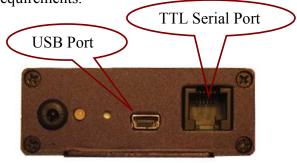
One on-board thermistor channel monitors ambient temperature. Seven rangeprogrammable voltage external input channels cover wide measurement requirements.

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.

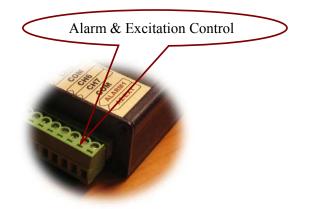
Fast Sampling Mode:

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:

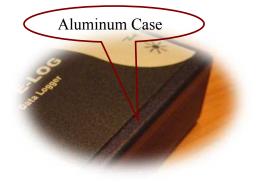
The Site-Log data logger notifies the alarm condition over alarm terminal strips or communication lines. (USB, Serial Port, MODEM)

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.

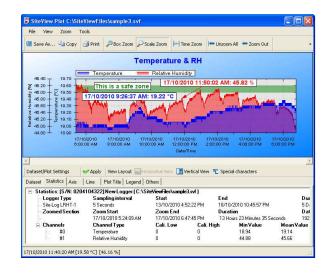


Powerful Software:

SiteView is a Windows-based application which works with the Site-Log Series data loggers for downloading, configuration, 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.



SPECIFICATIONS

Product Identification				
Product Name	Site-Log			
Model	LFV-1,2,3,4,5/LPVB-1,2,3,4,5			
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 Voltage DC Inputs: For LFV-1/LFVB-1: seven 20 VDC channels. For LFV-2/LFVB-2: seven 10 VDC channels. For LFV-3/LFVB-3: seven 5 VDC channels. For LFV-4/LFVB-4: seven 2 VDC channels. For LFV-5/LFVB-5: CH1: 20 VDC, CH2: 10 VDC, CH3: 10 VDC, CH4: 5 VDC, CH5: 5 VDC, CH6: 2 VDC, CH7: 2 VDC.			
Resolution	0.0018%			
Accuracy	Thermistor channel: +/- 0.2°C(0°C ~ 70°C, 32°F ~ 158°F) LFV voltage channels: +/- 0.15% @ 25°C from 0.1V and up +/- 0.5% @ 25°C from 0 – 0.1V LFVB voltage channels: +/- 0.05% FSR @ 25°C for 20V, 10V, 5V channels +/- 0.1% FSR @ 25°C for 2V channels			
Input Impedance:	> 1 MOhms			
Over-voltage protection	For LFV Series: up to – 3 VDC and + 40 VDC For LFVB Series: +/- 40 VDC			
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. With purchase of SiteView software, the Site-Log can report alarm status to host PC via USB, Modem or Ethernet Device Server. 			
Alarm-On Delay:	Programmable 0 - 10 minutes delay with 1-minute increments.			
Alarm Indicator	On-board LED lights in red when in alarm condition.			
On-board Memory				
Capacity	4 Mega bytes (2 Mega measurements).			
Data Retention	Over 20 years.			
Sampling & Logging				
Sampling Interval	20 milliseconds ^[1] 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). 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.			
Battery				
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 $-40 \sim +70^{\circ}\text{C} (-40^{\circ}\text{F} \sim 158^{\circ}\text{F}), 0 \sim 95\%$ 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.[2]: Sold separately.

LOGGING CAPACITY TABLE

Sampling Interval	Enabled Channel	Logging Capacity	Sampling Interval	Enabled Channel	Logging Capacity
1 minute	1	3.98 years	1 second	1	24 days
1 minute	2	727 days	1 second	2	12 days
1 minute	8	181 days	1 second	8	3 days
10 seconds	1	242 days	100 ms	1	58 hours
10 seconds	2	121 days	100 ms	2	29 hours
10 seconds	8	30 days	100 ms	8	7.2 hours