

TARGET MARKETS

- ▶ Health Care
- ▶ Plant maintenance
- ▶ Transportation
- ▶ Pharmaceutical
- ▶ Process Monitoring

TARGET USERS

- ▶ Electricians
- ▶ Engineers
- ▶ Field Service Technician
- ▶ Process Engineers
- ▶ Biomedical Technician

APPLICATIONS

- ▶ Process monitoring
- ▶ HVAC troubleshooting
- ▶ Refrigeration monitoring
- ▶ And many more

KEY COMPETITIVE ADVANTAGES

- ▶ Choice of storage modes
- ▶ Choice of storage rates
- ▶ Choice of thermocouple type
- ▶ Simple one button operation
- ▶ Choice of sample rates
- ▶ Automatic report generation
- ▶ Alarm set points for better analysis
- ▶ Extended Recording Mode (XRM™)

SPECIFICATIONS

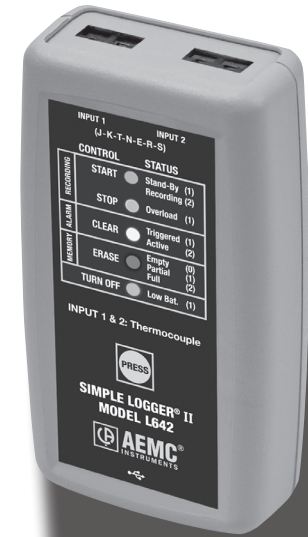
MODEL	L642
ELECTRICAL	
Channels	Two
Input Connection	Two miniature thermocouple connectors
Measurement Range:	°F (°C)
J	-346 to +2192 (-210 to +1200)
K	-328 to +2501 (-200 to +1372)
T	-418 to +752 (-250 to +400)
N	-328 to +2372 (-200 to +1300)
E	-238 to 1742 (-150 to +950)
R	32 to 3212 (0 to 1767)
S	32 to 3212 (0 to 1767)
Resolution	0.1° C/F < 1000° C/F; 1° ≥ 1000° C/F
Accuracy	0.1% to 0.2% +0.6° to 1°, depending on the range and T/C type
Sample Rate	8 samples taken at storage interval
Storage Rate	Programmable from 5 sec to 1 day
Storage Modes	Start/Stop, FIFO and Extended Recording Mode (XRM™)
Recording Length	15 minutes to 8 weeks, programmable using DataView®
Memory	240,000 measurements (512KB) The recorded data is stored in non-volatile memory & retained even if the battery is low or removed.
Communication	USB 2.0 optically isolated
Power Source	2 x 1.5V AA-cell Alkaline batteries
Battery Life	100 hours to >45 days (dependent on sample rate/recording length)
MECHANICAL	
Dimensions	4.94 x 2.75 x 1.28" (125 x 70 x 32mm)
Weight (with battery)	7 oz (200 grams)
Case	UL94-V0
Vibration	IEC 68-2-6 (1.5mm, 10 to 55Hz)
Shock	IEC 68-2-27 (30G)
Drop	IEC 68-2-32 (1m)

ORDERING INFORMATION

Simple Logger® II Model L642.....Cat. #2126.08
(Temperature Thermocouple)
Includes USB cable, DataView® CD-ROM, 2 x 1.5V AA-cell Alkaline batteries, user manual and warranty card.
Thermocouples are sold separately.

Simple Logger® II Thermocouple Model L642

S A L E S G U I D E



- ▶ 2 input channels
- ▶ User selectable thermocouple types J, K, T, N, E, R, and S
- ▶ Programmable storage rates from 1 every 5 seconds to 1 per day
- ▶ 3 user selectable storage modes
- ▶ Stores up to 240,000 measurements in non-volatile memory
- ▶ Powered by standard Alkaline batteries
- ▶ Lightweight, compact, fits anywhere
- ▶ 5 LED indicators quickly and clearly display logger status
- ▶ Includes FREE DataView® software for data storage, real-time display, analysis and report generation
- ▶ 50V Cat.III

BYRAM LABS
AN ENERGY TECHNOLOGY COMPANY

Simple Logger® II Model L642 Software for AEMC® Instruments

FEATURES

- ▶ Display and analyze real-time data through your PC
- ▶ Configure all Data Logger functions and parameters from your PC including sample rate, recording length, channel configuration and more
- ▶ Create and store a library of configurations that can be uploaded to the logger as needed
- ▶ Zoom in and out and pan through sections of the graph to analyze the data
- ▶ Download, display and analyze recorded data
- ▶ Display waveforms, trend graphs, harmonics (AC models) and text summaries, all in real-time
- ▶ Create custom views and reports
- ▶ Print reports using standard or custom templates you design
- ▶ Free software upgrades

GRAPHING & ANALYSIS SOFTWARE

DataView®

The DataView® software provides a convenient way to configure and control logging from your computer. Through the use of clear and easy-to-use tabbed dialog boxes, all Simple Logger® II functions can be configured and tests can be initiated. Results can be displayed in real time and stored in your PC or the logger. Standard or custom reports may be printed along with the operator's comments and analysis.



3 RECORDING MODES

Start/Stop Mode

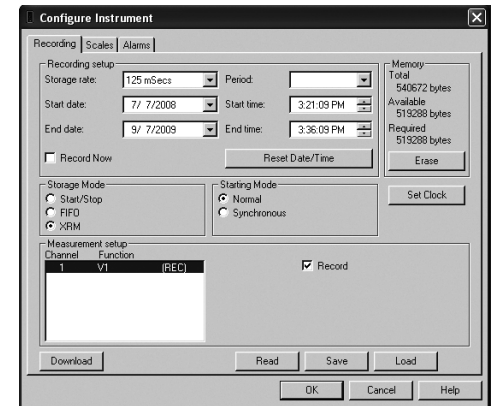
In this mode the operator selects a storage rate from predefined values from 8 per second to 1 every day, then selects a start and stop time. Data is recorded at this rate until the memory is filled or the end recording time and date is reached. The logger then stops recording and goes into standby mode retaining the recorded date.

First In First Out Mode (FIFO)

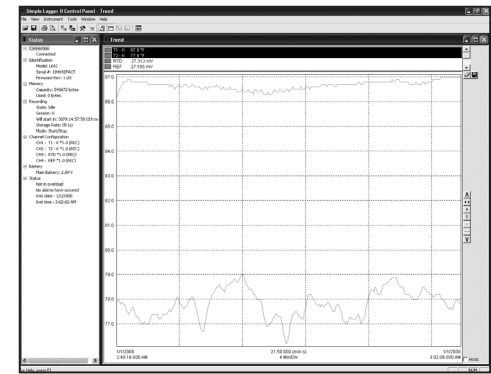
The operator makes the data storage and recording length selections as described above. If the memory fills before the end date and time occurs, the logger will discard the oldest stored data point and add a new one. This process will continue until the end recording date and time is reached.

Extended Time Recording Mode (XRM™)

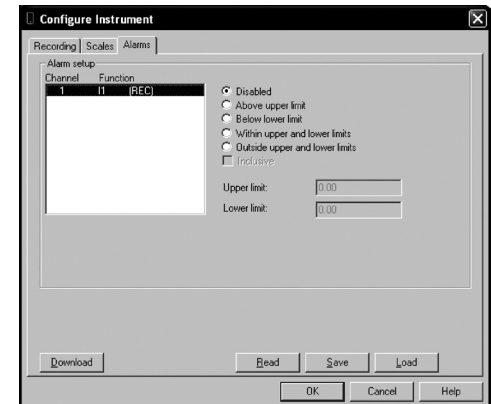
This unique recording mechanism provides for continuous recording over a longer period of time without the need for the operator's selection or adjustments. The operator selects a starting storage range from predefined values from 8 per second to 1 every day and a recording length. The logger will store data at the rate selected until the memory is filled. The logger will then discard every other stored sample beyond the first one, freeing up half the memory for continuous recording. New samples will be stored at half the previous storage rate, matching the interval with the remaining stored data. This process will repeat each time the memory fills until the operator stops the recording manually, the end recording date and time is reached or the battery runs down.



Quick and simple configuration of all functions and settings from one dialog box.



Real-time view of trend, waveform and status screens.



Configure all alarm functions with straightforward selections.