Simple Logger® II Thermocouple Model L642

Model L642

AUTOMATIC REPORT GENERATION

Model L642 includes type A to 5-pin mini-B USB 2M, DataView® CD, two 1.5V AA-cell Alkaline batteries and user manual. Thermocouples sold separately.

FEATURES

- 2 input channels
- User selectable thermocouple types J, K, T, N, E, R, and S
- Programmable storage rates from 1 per 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
- UBS cable included
- 50V Cat. III

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 storage 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)
ENVIRONMENTAL	
Operating Temperature	14° to 122°F (-10° to 50°C)
Storage Temperature	-4° to 140°F (-20° to 60°C)

APPLICATIONS

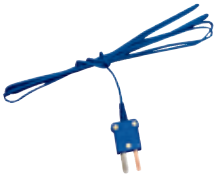
- HVAC monitoring
- Process monitoring
- Refrigeration monitoring
- And many more

Optional Thermocouple Sensors

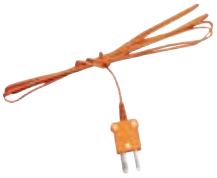
Please consult AEMC® for recommendations on thermocouples.

J Thermocouple

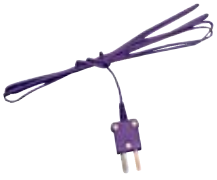
K Thermocouple



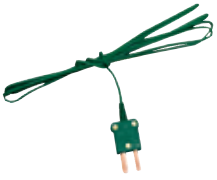
T Thermocouple



N Thermocouple



E Thermocouple



R & S Thermocouple

DESCRIPTION	CATALOG NO.
Simple Logger® II Model L642 (Temperature Thermocouple)	2126.08