AEMC® INSTRUMENTS
CHAUVIN ARNOUX GROUP

Summary Sheet

Simple Logger® II Model L642

Cat. #2126.08
2-Channel, Temperature Thermocouple, DataView Software
Two channel thermocouple data logger. With J, K, T, N, E, R or S thermocouples, it measures from -346° to + 1767°F (-210° to 964°C) with resolution to 0.1° (range dependent). Features include Extended Recording Mode (XRM) and delayed start time. Includes easy and intuitive setup from a computer using DataView software.

Cat.#2126.08

Channels	Two	
Input	Two miniature thermocouple connectors	
Connection	°F	°C
Measurement Range: (Thermocouple Dependent)	J -346 to +2192	J -210 to +1200
	K -328 to +2501	K -200 to +1372
	T -328 to +752	T -200 to +400
	N -328 to +2372	N -200 to +1300
	E -238 to +1742	E -150 to +950
	R 32 to 3212	R 0 to 1767
	S 32 to 3212	S 0 to 1767
Accuracy J, K, N, T, E	θ ≤ -148°F/-100°C · ± (0.2% of R + 1.1°F/0.6°C) -148°F/-100°C < θ ≤+212°F/+100°C · ± (0.15% of R +1.1°F/0.6°C) ≥ +212°F/+100°C · ± (0.1% of R + 1.1°F/0.6°C)	
Accuracy (R, S)	θ = 32°F/0°C to +212°F/+100°C · ± (0.15% of R + 1.1°F/0.6°C) θ ≥ +212°F/+100°C · ± (0.1% of R + 1.8°F/1°C)	
Resolution	θ < 1000°F or °C · 0.1°F or °C θ > 1000°F or °C · 1°F or °C	
Temperature Coefficient	± (0.02% of R + 0.03°C/°C or ± (0.02% of R + 0.03°F/°F between operating temperature of -10° to 18°C and +28° to 50°C	
Maximum Differential Input	1V (between input)	
Sample Rate	Maximum of 8 samples taken at storage interval	
Storage Rate	Programmable from 5s to 1 per day	
Storage Modes	Start/Stop, FIFO, extended mode (XRM) and Alarm	

For more details, download the datasheet or user manual at www.aemc.com

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Recording Length	15 minutes to 8 weeks, programmable using DataView
Memory	240,000 measurements (512KB). Recorded data is stored in non-volatile memory and will be retained even if battery is low or removed.
Communication	USB 2.0 optically isolated
Power Source	2x1.5V AA (LR6) alkaline batteries
Battery Life	100 hrs to >45 days (depending of sample rate/recording length)
Dimensions	4.94 x 2.75 x 1.28” (125 x 70 x 32mm)
Weight (with battery)	7 oz (200g)
Case	Polycarbonate
Operating Temperature	14° to 122°F (-10° to 50°C)
Storage Temperature	-4° to 140°F (-20° to 60°C)
Relative Humidity	Up to 85% @ 95°F (35°C)
Ingress Protection (IP)	IP40
EMC	EN 61326-1
Safety Compliance	IEC 61010-1, EN 61010-2-32 50V CAT III Pollution Degree 2 CE

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