

Linseis Universal Recorder/Logger

The CR4 six (6) inch Universal Chart Recorder offers the ultimate in flexibility. Choose one of 5 sensors for your application, connect it to the CR4 Universal Recorder, make desired speed selection and start recording.

When your application calls for a different sensor, just change probes for the same recorder.

If you prefer to log data and download to a computer for analysis, the SL4 Service Logger has the same great flexibility of the CR4. The same probes can be used with the SL4.

Universal Recorder



CR4 & KTH (CRTH2)
Universal Recorder with Temperature Humidity Probe

Features/Benefits

- Automatic Probe recognition
- Front panel touch pad
- Real Time data view
- Battery backup (CR4)
- Field replaceable probes
- Field calibration of probes
- Independent Channel Alarms (CR4)
- PC software included (SL4)
(Windows 95 & 98 compatible only)

5 Interchangeable Probes

- KTH Temperature and Humidity Probe
- KTT Dual Temperature Probes
- KTP Temperature and Pressure Probes
- KPP Dual Pressure Probes
- KTE Temperature/Event Probes

Service Logger



CR4 & SL4 Specifications

	CR4	SL4
Chart Diameter	6 inches	Recording Time
Chart Rotation Mode	Continuous or Single turn	Memory
Chart Rotation Speed	1.5, 3, 6, 12 & 24 hrs, 7 & 31 days	Printer Interface
Chart Speed Accuracy	±1%	Parallel (centronics compatible)
Charts	60 assorted included	
Display	Backlit LCD (2 line)	Backlit LCD (2 line)
Temperature alarm Range	-20°F to 120°F (-30°C to 50°C)	
Relative Humidity alarm Range	0 to 100%	
Pressure Alarm Range	0 to 500 PSI (0 to 35 Bar)	
Alarm Delay	NO DELAY, 10 mins., 30 mins., 1 hr. or 2 hrs.	
Remote Alarm Connection	NO, 48 VAC/ DC, 0.1 A resistive load	
Operating Temperature	32°F to 120°F (0°C to 49°C)	32°F to 150°F (0°C to 65°C)
Primary Power	115 VAC, 50/60 Hz (230 VAC, 50/60 Hz optional)	115 VAC, 50/60 Hz (230 VAC, 50/60 Hz optional)
Alternate Power	12 V vehicle operation (need optional adapter)	12 V vehicle operation (need optional adapter)
Battery backup	8 AA alkaline batteries	9 V battery
Battery Life	48 hrs. continuous	24 hrs.

Interchangeable* Probes for CR4 and SL4

Probe Type	Part No.	Temp.Range/ Accuracy	Voltage Range	RH Range/ Accuracy	Press Range/ Accuracy	Dew Point Range
Temp/RH	KTH	-40°F to 130°F ±2°F (-40° to 55°C ±1°C)	—	0-100% at 32° to 130°F ±2% (0° to 55°C) ambient	—	32° to 130°F (0° to 55°C)
Temp/Temp	KTT	-40°F to 130°F ±2°F (-40° to 55°C ±1°C)	—	—	—	—
Temp/Press	KTP	-40°F to 130°F ±2°F (-40° to 55°C ±1°C)	—	—	0-500PSI (0-35 BAR) ±1%FS	—
Press/Press	KPP	—	—	—	0-500PSI (0-35 BAR) ±1%FS	—
Temp/Event	KTE	-40°F to 130°F ±2°F (-40° to 55°C ±1°C)	24 VAC-270VAC (24 VDC-180VDC)	—	—	—

*All probes can be used with the Service Logger and the Universal Recorder.

KTH Temperature / Humidity Probe

Complete with combination temperature, humidity probe. Allows for precision measurement of temperature, humidity and dew point.



KTT Dual Temperature Probes

Complete with two precision temperature probes. Allows for two independent temperature measurements. Includes adapter and connecting cable. Perfect for refrigerators, freezers, indoor-outdoor recording, etc.



KTP Temperature / Pressure Probes

Complete with independent precision pressure and temperature probes. Measures and records temperature and pressure simultaneously. Ideal for solving intermittent compressor problems. Includes a connecting cable and adapter.



KPP Dual Pressure Probes

Complete with two pressure probes. Measure and record two pressures simultaneously. Includes connecting cable and adapter.



KTE Temperature / Event Probes

Complete with precision temperature probe, event probe, a connecting cable and adapter. Allows the service engineer to analyze various equipment running cycles.



CR4 & SL4 Accessories

Part No.	Description	CR4	SL4	KTH	KTT	KTP	KPP	KTE
KTH	Temperature/ Humidity Probe	*	*					
KTT	Dual Temperature Probes	*	*					
KTP	Temperature and Pressure Probes	*	*					
KPP	Dual Pressure Probes	*	*					
KTE	Temperature/ Event Probes	*	*					
CABLE10H	Extension cable for KTH			*				
CABLE6	6 ft. cable for sensor probes			*	*	*	*	*
CABLE15	15 ft. cable for sensor probes			*	*	*	*	*
CABLE25	25 ft. cable for sensor probes			*	*	*	*	*
TP6	Temperature sensor with 6 ft. wire			*	*	*		
TP15	Temperature sensor with 15 ft. wire			*	*	*		
CRPEN	Black Recorder Pen	*						
CRPENR	Red Recorder Pen	*						
CRPENB	Blue Recorder Pen	*						
CR4CABLE	RS232 Data Cable	*						
PC6	6 ft. Printer cable		*					
CC6	6 ft. Computer Transfer cable		*					
CRT 115	VAC Power Adapter	*	*					
CRT220	220 VAC Power Adapter	*	*					
SLCASE	Carrying Case		*					

Universal Recorder Charts

KTH RANGE 1	KTH RANGE 2	12 HR	24 HR	7 DAY	31 DAY
-20°F to 120°F	0-100% HUMIDITY	E20120F12	E20120F24	E20120F7	E20120F31
-20°F to 50°F	0-100% HUMIDITY	E2050F12	E2050F24	E2050F7	E2050F31
40°F to 110°F	0-100% HUMIDITY	E40110F12	E40110F24	E40110F7	E40110F31
-30°C to 50°C	0-100% HUMIDITY	E3050C12	E3050C24	E3050C7	E3050C31
-30°C to 10°C	0-100% HUMIDITY	E3010C12	E3010C24	E3010C7	E3010C31
5°C to 45°C	0-100% HUMIDITY	E545C12	E545C24	E545C7	E545C31
KTT RANGE 1	KTT RANGE 2	12 HR	24 HR	7 DAY	31 DAY
-20°F to 120°F	-20°F to 50°F	CRTT2-2	CRTT2-1	CRTT2-3	CRTT2-21
-20°F to 50°F	40°F to 110°F	CRTT2-5	CRTT2-4	CRTT2-6	CRTT2-19
40°F to 110°F	-20°F to 120°F	CRTT2-8	CRTT2-7	CRTT2-9	CRTT2-20
-30°C to 50°C	5°C to 45°C	CRTT2-11	CRTT2-10	CRTT2-12	CRTT2-22
5°C to 45°C	-30°C to 10°C	CRTT2-14	CRTT2-13	CRTT2-15	CRTT2-24
-30°C to 10°C	-30°C to 50°C	CRTT2-17	CRTT2-16	CRTT2-18	CRTT2-23
KTE RANGE 1	KTE RANGE 2	12 HR	24 HR	7 DAY	31 DAY
-20°F to 120°F	ON/OFF	V20120F12	V20120F24	V20120F7D	V20120F31
-20°F to 50°F	ON/OFF	V2050F12	V2050F24	V2050F7	V2050F31
40°F to 110°F	ON/OFF	V40110F12	V40110F24	V40110F7	V40110F31
-30°C to 50°C	ON/OFF	V3050C12	V3050C24	V3050C7	V3050C31
5°C to 45°C	ON/OFF	V545C12	V545C24	V545C7	V545C34
-30°C to 10°C	ON/OFF	V3010C12	V3010C24	V3010C7	V3010C31
KPP RANGE 1	KPP RANGE 2	12 HR	24 HR	7 DAY	31 DAY
0-50 PSI	0-150 PSI	CRPP2-1	CRPP2-7	CRPP2-13	CRPP2-19
0-50 PSI	0-150 PSI	CRPP2-2	CRPP2-8	CRPP2-14	CRPP2-20
0-150 PSI	0-500 PSI	CRPP2-3	CRPP2-9	CRPP2-15	CRPP2-21
0-3.5 BAR	0-10 BAR	CRPP2-4	CRPP2-10	CRPP2-16	CRPP2-22
0-3.5 BAR	0-35 BAR	CRPP2-5	CRPP2-11	CRPP2-17	CRPP2-23
0-10 BAR	0-35 BAR	CRPP2-6	CRPP2-12	CRPP2-18	CRPP2-24
KTP RANGE 1	KTP RANGE 2	12 HR	24 HR	7 DAY	31 DAY
-20°F to 120°F	0-50 PSI	CRTP2-1	CRTP2-10	CRTP2-37	CRTP2-55
-20°F to 120°F	0-150 PSI	CRTP2-2	CRTP2-11	CRTP2-38	CRTP2-56
-20°F to 120°F	0-500 PSI	CRTP2-3	CRTP2-12	CRTP2-39	CRTP2-57
-20°F to 50°F	0-50 PSI	CRTP2-4	CRTP2-13	CRTP2-40	CRTP2-58
-20°F to 50°F	0-150 PSI	CRTP2-5	CRTP2-14	CRTP2-41	CRTP2-59
-20°F to 50°F	0-500 PSI	CRTP2-6	CRTP2-15	CRTP2-42	CRTP2-60
40°F to 110°F	0-50 PSI	CRTP2-7	CRTP2-16	CRTP2-43	CRTP2-61
40°F to 110°F	0-150 PSI	CRTP2-8	CRTP2-17	CRTP2-44	CRTP2-62
40°F to 110°F	0-500 PSI	CRTP2-9	CRTP2-18	CRTP2-45	CRTP2-63
-30°C to 50°C	0-3.5 BAR	CRTP2-19	CRTP2-28	CRTP2-46	CRTP2-64
-30°C to 50°C	0-10 BAR	CRTP2-20	CRTP2-29	CRTP2-47	CRTP2-65
-30°C to 50°C	0-35 BAR	CRTP2-21	CRTP2-30	CRTP2-48	CRTP2-66
-30°C to 10°C	0-3.5 BAR	CRTP2-22	CRTP2-31	CRTP2-49	CRTP2-67
-30°C to 10°C	0-10 BAR	CRTP2-23	CRTP2-32	CRTP2-50	CRTP2-68
-30°C to 10°C	0-35 BAR	CRTP2-24	CRTP2-33	CRTP2-51	CRTP2-69
5°C to 45°C	0-3.5 BAR	CRTP2-25	CRTP2-34	CRTP2-52	CRTP2-70
5°C to 45°C	0-10 BAR	CRTP2-26	CRTP2-35	CRTP2-53	CRTP2-71
5°C to 45°C	0-35 BAR	CRTP2-27	CRTP2-36	CRTP2-54	CRTP2-72