



Instrumentación Técnica Profesional

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DATA LOGGERS

EL-USB-TC-LCD Registrador de Temperatura con sondas termopar J,K,T con display



Registrador de Temperatura con sondas Termopar Tipos K,J,T y display

Rango de medición sensores externos :

K= - 200°C/ + 1.350°C J= - 200°C / + 1.190 °C T= - 200°C / + 390° C

Memoria para registro de datos: 32.510 valores

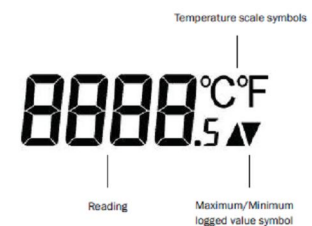
Alarma programable y visible mediante leds rojo y verde
Batería de litio sustituable no recargable útil para 6 meses.
Se entrega con sonda Tipo K: 0 / 400°C

Software gratuito con cada unidad.
Corre con Windows 2000, XP y Vista.

Type	Temperature Range °C	Temperature Range °F	Connector Coding	
			ANSI	IEC
K	-200 to +1350	-328 to +2462		
J	-200 to +1190	-328 to +2174		
T	-200 to +390	-328 to +734		



Display	Logger Status	Explanation
	Delayed Start	This is shown when the logger is set to start at a specific data and time*
	Push to Start	This is shown when the logger is setup for "Push to start" logging
	Logging	This is shown when the logger is running in "LCD off" mode, and the button is pressed. The display clears again after three seconds
	Stopped	If the logger has not been set to log and the button is pressed, three dashes are displayed for three seconds



* If the logger is set to "LCD off" or "LCD on for 30 seconds" mode, then this will only be shown after the button is pressed. Otherwise the display will remain blank.

Specifications	Minimum	Typical	Maximum	Unit
Probe Measurement range (K-type)	-200 (-328)		+1350 (+2462)	°C (°F)
Probe Measurement range (J-type)	-200 (-328)		+1190 (+2174)	°C (°F)
Probe Measurement range (T-type)	-200 (-328)		+390 (+734)	°C (°F)
Operating temperature range *	-10 (+14)		+40 (+104)	°C (°F)
Resolution (internal and displayed)		0.5 (1)		°C (°F)
Accuracy (logger error)		±1 (±2)**		°C (°F)
Logging rate	every 1 s		every 12 hr	-
1/2AA 3.6V Lithium Battery Life		6***		Months

* Operating temperature applies to the data logger module only. Please consult the probe manufacturer for operating temperature of thermocouple.

** Quoted accuracy is for the data logger only and excludes the thermocouple probe. Thermocouple error should also be taken into consideration.

*** Depending on sample rate, ambient temperature and use of LCD.

LED FLASHING MODES


EL-USB-TC features two LEDs, that indicate the logging, battery and alarm status:

- The first LED flashes red to indicate that the EL-USB-TC is in an alarm condition. It will flash when the logged temperature has exceeded a Low or High alarm level.
- The second LED flashes green to indicate that the EL-USB-TC is not in an alarm condition.











Hold is enabled by default, which forces the logger to continue flashing the red LED after an alarm, even when the temperature has returned to normal. This feature ensures that the user is notified that an alarm level has been exceeded, without the need to download the data from the logger.

Hold can be turned off via the control software. The red LED will then only flash whilst the logger is in an alarm condition. When the temperature returns to normal, the green LED will flash.

Additional LED modes are explained below:



Green LED Red LED

	<p>Green single flash (10 seconds) The data logger is currently logging. No alarm.</p>
	<p>Green single flash (20 seconds) The data logger is currently logging. No alarm. However, the battery is low and should be replaced before logging important data.</p>
	<p>Green single flash (30 seconds) The data logger is not currently logging, but is primed to start at a later date and time (delayed start).</p>
	<p>Green double flash (20 seconds) The data logger is full and has stopped logging. No alarm.</p>
	<p>Red single flash (10 seconds) The data logger is currently logging. Low alarm.</p>
	<p>Red single flash (20 seconds) The data logger is currently logging. Low alarm. However, the battery is low and should be replaced before logging important data.</p>
	<p>Red double flash (10 seconds) The data logger is currently logging. High alarm.</p>
	<p>Red double flash (20 seconds) The data logger is currently logging. High alarm. However, the battery is low and should be replaced before logging important data.</p>
	<p>Red/Green single flash (20 seconds) The data logger is full and has stopped logging. Alarm (high, low or both).</p>
	<p>No LEDs flash The data logger is stopped, the battery is empty or there is no battery fitted.</p>