

# K Thermometer Models CA861 & CA863



Model CA861 with single K-type thermocouple input



Model CA863 with dual K-type thermocouple inputs for performing differential measurements



The K Thermometer Models CA861 and CA863 are portable, compact meters designed to use external K thermocouples as temperature sensors. The Model CA861 is a single input instrument, while the Model CA863 offers dual inputs for performing differential measurements.

Features include MAX and HOLD functions, a high resolution 0.1° setting and an easy-to-read 3½ digit LCD with a backlight. The Model CA863 offers the ability to easily switch between temperature readings on both channels (T1 and T2) and differential ( $\Delta T$ ). Both thermometers are supplied with K thermocouples.

## Features

- Easy one-hand operation
- K thermocouple(s) included
- Measures temperature in °F and °C
- 0.1° Resolution
- MAX and HOLD functions
- 2000-count backlit LCD
- Lightweight and compact
- Includes rugged, shockproof, protective, dirt resistant holster

## Applications

- Process control monitoring and troubleshooting
- HVAC installation and maintenance
- Chemical processing
- Food processing
- Plastics
- Mold injecting and HVAC for temperature rise and fall (Model CA863)
- Indoor/outdoor differential temperature measurements (Model CA863)



The Right Source For Your Test & Measurement Needs

2222 Verus Street Suite C San Diego CA 92154 USA  
 Toll Free: 866.363.6634 Tel: 619.429.4545 Fax: 619.374.7012  
 Email: sales@calright.com <http://www.calright.com>

## Specifications

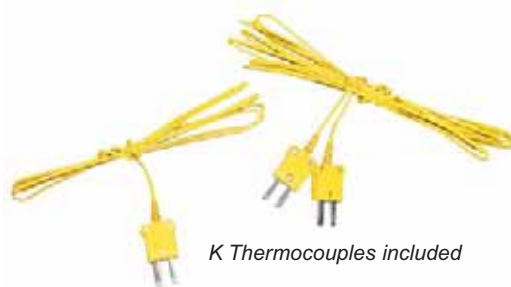
MODEL	CA861	CA863
<b>MEASUREMENTS</b>		
Input	Single K thermocouple	Dual K thermocouple
Temperature Scale	Fahrenheit or Celsius user-selectable	Fahrenheit or Celsius user-selectable
Measurement Range	-40° to 1999°F or -40° to 1350°C	-58° to 1999°F or -50° to 1300°C
Display Resolution	1°F or 1°C 0.1°F or 0.1°C	1°F or 1°C 0.1°F or 0.1°C
Sensor	K thermocouple	K thermocouple
Accuracy (Instrument)	-40° to 1999°F: ±0.1% Reading + 2°F plus thermocouple -40° to 1350°C: ±0.1% Reading + 1°C plus thermocouple	-58° to 1999°F: ±0.3% Reading + 2°F plus thermocouple -50° to 1000°C: ±0.3% Reading + 1°C plus thermocouple 1000° to 1300°C: ±0.5% Reading + 1°C plus thermocouple
Input Protection	24VDC or 24Vrms	24Vdc or 24Vrms
Display Refresh Rate	2.5 times per second	2.5 times per second
Input Connector	Accepts one standard miniature K thermocouple plug	Accepts two standard miniature K thermocouple plugs
<b>MECHANICAL</b>		
Display	3½ digit liquid crystal display(LCD), 2000-count	
Operating Temperature	32° to 122°F (0° to 50°C), <80% RH	
Storage Temperature	-4° to 140°F (-20° to 60°C), 0 to 80% RH without battery	
Polarity	Automatic	
Power Source	9V Alkaline battery	
Low Battery Indication	[- +] is displayed when battery voltage is low	
Dimensions	6.81 x 2.38 x 1.5" (173 x 60.5 x 38mm)	
Weight	Approx. 6.5 oz (185g) including battery	Approx. 6.4 oz (181g) including battery



1. Low battery indicator
2. T1-T2-ΔT toggle (Model CA863)
3. °C/°F selector & backlight
4. Power switch/resolution selector
5. 3½ digit display
6. HOLD button (Model CA861)  
HOLD/MAX button (CA863)



Take two simultaneous temperature measurements and view each individual reading or the differential with the push of a button.



## ORDERING INFORMATION

## CATALOG NO.

Thermometer Model CA861 (K thermocouple) ..... Cat. #2121.26

Thermometer Model CA863 (Dual K thermocouple) ..... Cat. #2121.27

Includes K thermocouple, 9V Alkaline battery, rugged, shockproof, protective, dirt resistant gray holster and user manual



The Right Source For Your Test & Measurement Needs

2222 Verus Street Suite C San Diego CA 92154 USA

Toll Free: 866.363.6634 Tel: 619.429.4545 Fax: 619.374.7012

Email: sales@calright.com <http://www.calright.com>

## Contact Us

United States & Canada:

Chauvin Arnoux<sup>®</sup>, Inc.  
d.b.a. AEMC<sup>®</sup> Instruments  
200 Foxborough Blvd.  
Foxborough, MA 02035 USA  
(508) 698-2115 • Fax (508) 698-2118  
[www.aemc.com](http://www.aemc.com)

Customer Support - for placing an order, obtaining price & delivery:  
[customerservice@aemc.com](mailto:customerservice@aemc.com)

Sales Department – for general sales information:  
[sales@aemc.com](mailto:sales@aemc.com)

Repair and Calibration Service - for information on repair & calibration, obtaining a user manual:  
[repair@aemc.com](mailto:repair@aemc.com)

Technical and Product Application Support –for technical and application support:  
[techinfo@aemc.com](mailto:techinfo@aemc.com)

Webmaster - for information regarding [www.aemc.com](http://www.aemc.com):  
[webmaster@aemc.com](mailto:webmaster@aemc.com)



*The Right Source For Your Test & Measurement Needs*

2222 Verus Street Suite C San Diego CA 92154 USA  
Toll Free: 866.363.6634 Tel: 619.429.4545 Fax: 619.374.7012  
Email: [sales@calright.com](mailto:sales@calright.com) <http://www.calright.com>