

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 (ΔT). 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)

Specifications

MODEL	CA861	CA863
MEASUREMENTS		
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
MECHANICAL		
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.



K Thermocouples included

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

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