

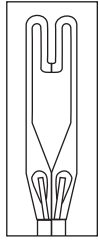
“Cement-On” Thermocouples

- ✓ Response Time in Milliseconds
- ✓ Made from 0.013 mm (0.0005") Foil and 0.25 mm (0.010") Diameter Thermocouple Wire
- ✓ Very Low Thermal Inertia
- ✓ Four Calibrations J, K, E, and T
- ✓ Three Styles Ideal for Surface Measurement

OMEGA introduces its Cement-On, fast response thermocouples for fast surface temperature measurement applications in three convenient styles. Styles 1 and 2 are made from 0.013 mm (0.0005") thermocouple alloy foil by a special process where the butt welded thermocouple junction is 0.013 mm (0.0005") in thickness. Styles 1 and 2 are flat, extremely low inertia construction and are an ideal means of measuring the temperature of both flat and curved metals, plastic and ceramic surfaces where very fast response is desired.

OMEGA's Cement-On Style 1 and 2 thermocouples are fabricated from ANSI "Special Limits of Error" grade thermocouple materials in K, E and T calibrations and yield accurate temperature indication when used with standard thermocouple instrumentation. Styles 1 and 2 have the fastest response. Style 3 is an economy version constructed from 0.25 mm (0.010") diameter bead welded standard limit of error thermocouple wire. It should be used where extremely fast response is not essential.

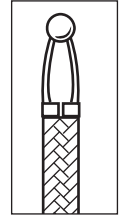
CO Series Starts at **\$42**



Style 1
1 m (40")
leads
standard



Style 2
150 mm
(6") leads
standard



Style 3
1 m (40")
leads
standard



MEETS OR EXCEEDS
SPECIAL LIMITS
OF ERROR (SLE)
AND EN 60584-2:
Tolerance Class 1

Dimensions and
Additional Information
Available at
omega.com/co-k

MOST POPULAR MODELS HIGHLIGHTED!

Model No.	Price	Style	Thermocouple Type	Length	Maximum Temperature °C (°F)*		
					Continuous	600 hr	10 hr
CO1-K	\$62	1	K CHROME [®] ALOMEGA [®]	1 m (40")	260 (500)	315 (600)	370 (700)
CO1-E	62		E CHROME [®] Constantan	1 m (40")	260 (500)	315 (600)	370 (700)
CO1-T	62		T Copper - Constantan	1 m (40")	150 (300)	205 (400)	260 (500)
CO2-K	\$62	2	K CHROME [®] ALOMEGA [®]	150 mm (6")	540 (1000)	540 (1000)	650 (120)
CO2-E	62		E CHROME [®] Constantan	150 mm (6")	425 (800)	425 (800)	540 (1000)
CO2-T	62		T Copper-Constantan	150 mm (6")	150 (300)	150 (300)	260 (500)
CO3-J	\$42	3	J Iron - Constantan	1 m (40")	260 (500)	370 (700)	370 (700)
CO3-K	42		K CHROME [®] ALOMEGA [®]	1 m (40")	260 (500)	370 (700)	370 (700)
CO3-E	42		E CHROME [®] Constantan	1 m (40")	260 (500)	370 (700)	370 (700)
CO3-T	42		T Copper-Constantan	1 m (40")	205 (400)	260 (500)	370 (700)

* The temperature range high limits given are greatly influenced by environmental conditions, installation method, accuracy and lifetime requirements and may vary from the general guidelines listed in the table.

Style 1 and 3 cannot be used with CC High Temperature Cement; CC Cement will break down insulation.

Response time when "grounded" or "cemented" to surface: **Style 1** (10 to 20 milliseconds), **Style 2** (2 to 5 milliseconds), **Style 3** (300 milliseconds). The response time or "time constant" is the time required to reach 63.2% of an instantaneous temperature change.

Additional length wire can be ordered for Styles 1 and 3, add \$6 per 300 mm (12"), for Style 2 add \$10 per 300 mm (12").

Ordering Example: CO1-K is a style 1, Type K thermocouple, 1 m (40") long, \$62.



UNITED STATES

www.omega.com
1-800-TC-OMEGA
Stamford, CT.

CANADA

www.omega.ca
Laval(Quebec)
1-800-TC-OMEGA

GERMANY

www.omega.de
Deckenpfronn, Germany
0800-8266342

UNITED KINGDOM

www.omega.co.uk
Manchester, England
0800-488-488

FRANCE

www.omega.fr
Guyancourt, France
088-466-342

CZECH REPUBLIC

www.omegaeng.cz
Karviná, Czech Republic
596-311-899

BENELUX

www.omega.nl
Amstelveen, NL
0800-099-33-44



More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples Thermowells and Head and Well Assemblies, Transmitters, Wire

• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters