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Cole-Parmer® Benchtop PID Temperature Controllers

Perfect for basic temperature control applications

- Models available for type J, K, or T thermocouples or RTD probes
These temperature controllers display both the setpoint and process temperature and features modern control technology that produces greater temperature stability. The Auto-tune feature minimizes setpoint overshoot and features the ability to learn your process producing greater stability. Changing your setpoint is easily done with the interface keys. The controller can also perform ramp rate operations to allow the user to slowly raise the process temperature. The controller also features an audible alarm output, temperature selectable and one panel mounted receptacle that accept a three-prong plug. Select from models for types J, K, or T thermocouples with miniconnectors, or 100 ohm platinum RTD probes. This unit comes with a lattice support bracket, which is ideal for mounting to maximize space.

item	Max Temperature (° F)	Min Temperature (° F)	Description
 EW-36225-61	2192	-328	Benchtop 1-Zone Temperature Controller; Type J, 120V/15A

item	Max Temperature (° F)	Min Temperature (° F)	Description
 EW-36225-62	2498	-328	1-Zone Temperature Controller; Type K, 120V/15A
 EW-36225-63	752	-328	1-Zone Temperature Controller; Type T, 120V/15A
 EW-36225-64	1472	-328	Benchtop 1-Zone Temperature Controller; RTD, 120V/15A

Cole-Parmer Benchtop PID Temperature Controller, 1-Zone, Type K; 120 VAC

Specifications & Description

- DIN Size1/16
- Min Temperature (° F)-328

- Max Temperature (° F)2498
- Min Temperature (° C)-200
- Max Temperature (DegreeC)1370
- Accuracy0.1% of span, ±1.0ºF/ºC
- Resolution1º, 1.0º or 1.00º
- Control Input ThermocoupleYes
- Control Output 1SSR
- Display TypeLED
- Height (in)3.375
- Width (in)8
- Depth (in)6
- Height (mm)85.725
- Width (mm)203.2
- Depth (mm)152.4
- Power (VAC)120
- Description1-Zone Temperature Controller; Type K, 120V/15A
- Warranty1 year

MORE ABOUT THIS ITEM

These temperature controllers display both the setpoint and process temperature and features modern control technology that produces greater temperature stability. The Auto-tune feature minimizes setpoint overshoot and features the ability to learn your process producing greater stability. Changing your setpoint is easily done with the interface keys. The controller can also perform ramp rate operations to allow the user to slowly raise the process temperature. The controller also features an audible alarm output, temperature selectable and one panel mounted receptacle that accept a three-prong plug. Select from models for types J, K, or T thermocouples with miniconnectors, or 100 ohm platinum RTD probes. This unit comes with a lattice support bracket, which is ideal for mounting to maximize space.

Cole-Parmer Benchtop PID Temperature Controller, 1-Zone, Type T; 120 VAC

Cole-Parmer – Item # EW-36225-63

Specifications & Description

- DIN Size1/16
- Min Temperature (° F)-328
- Max Temperature (° F)752
- Min Temperature (° C)-200
- Max Temperature (DegreeC)400
- Accuracy0.1% of span, ±1.0ºF/ºC
- Resolution1º, 1.0º or 1.00º
- Control Input ThermocoupleYes
- Control Output 1SSR
- Display TypeLED
- Height (in)3.375
- Width (in)8
- Depth (in)6
- Height (mm)85.725
- Width (mm)203.2
- Depth (mm)152.4
- Power (VAC)120

- Description1-Zone Temperature Controller; Type T, 120V/15A
- Warranty1 year

MORE ABOUT THIS ITEM

These temperature controllers display both the setpoint and process temperature and features modern control technology that produces greater temperature stability. The Auto-tune feature minimizes setpoint overshoot and features the ability to learn your process producing greater stability. Changing your setpoint is easily done with the interface keys. The controller can also perform ramp rate operations to allow the user to slowly raise the process temperature. The controller also features an audible alarm output, temperature selectable and one panel mounted receptacle that accept a three-prong plug. Select from models for types J, K, or T thermocouples with miniconnectors, or 100 ohm platinum RTD probes. This unit comes with a lattice support bracket, which is ideal for mounting to maximize space.

Cole-Parmer Benchtop PID Temperature Controller, 1-Zone, RTD; 120 VAC

Cole-Parmer – Item # EW-36225-64

pecifications & Description

- DIN Size1/16
- Max Temperature (° F)1472
- Min Temperature (° F)-328
- Min Temperature (° C)-200
- Max Temperature (DegreeC)800
- Accuracy0.1% of span, ±1.0ºF/ºC
- Resolution1º, 1.0º or 1.00º
- Control Input RTDYes
- Control Output 1SSR
- Display TypeLED
- Height (in)3.375
- Width (in)8
- Depth (in)6
- Height (mm)85.725
- Width (mm)203.2
- Depth (mm)152.4
- Power (VAC)120
- DescriptionBenchtop 1-Zone Temperature Controller; RTD, 120V/15A
- Warranty1 year

MORE ABOUT THIS ITEM

These temperature controllers display both the setpoint and process temperature and features modern control technology that produces greater temperature stability. The Auto-tune feature minimizes setpoint overshoot and features the ability to learn your process producing greater stability. Changing your setpoint is easily done with the interface keys. The controller can also perform ramp rate operations to allow the user to slowly raise the process temperature. The controller also features an audible alarm output, temperature selectable and one panel mounted receptacle that accept a three-prong plug. Select from models for types J, K, or T thermocouples

with miniconnectors, or 100 ohm platinum RTD probes. This unit comes with a lattice support bracket, which is ideal for mounting to maximize space.

Cole-Parmer Benchtop PID Temperature Controller, 1-Zone, Type J; 120 VAC

Cole-Parmer Benchtop PID Temperature Controller, 1-Zone, Type J; 120 VAC

Zoom Image

Representative image only.

Add to

Cole-Parmer – Item # EW-36225-61

Specifications & Description

- DIN Size1/16
- Min Temperature (° F)-328
- Max Temperature (° F)2192
- Min Temperature (° C)-200
- Max Temperature (DegreeC)1200
- Accuracy0.1% of span, ±1.0ºF/ºC
- Resolution1º, 1.0º or 1.00º
- Control Input ThermocoupleYes
- Control Output 1SSR
- Display TypeLED
- Height (in)3.375
- Width (in)8
- Depth (in)6
- Height (mm)85.725
- Width (mm)203.2
- Depth (mm)152.4
- Power (VAC)120
- DescriptionBenchtop 1-Zone Temperature Controller; Type J, 120V/15A
- Warranty1 year

MORE ABOUT THIS ITEM

These temperature controllers display both the setpoint and process temperature and features modern control technology that produces greater temperature stability. The Auto-tune feature minimizes setpoint overshoot and features the ability to learn your process producing greater stability. Changing your setpoint is easily done with the interface keys. The controller can also perform ramp rate operations to allow the user to slowly raise the process temperature. The controller also features an audible alarm output, temperature selectable and one panel mounted receptacle that accept a three-prong plug. Select from models for types J, K, or T thermocouples with miniconnectors, or 100 ohm platinum RTD probes. This unit comes with a lattice support bracket, which is ideal for mounting to maximize space.

Cole-Parmer® Benchtop Twin Temperature Controllers

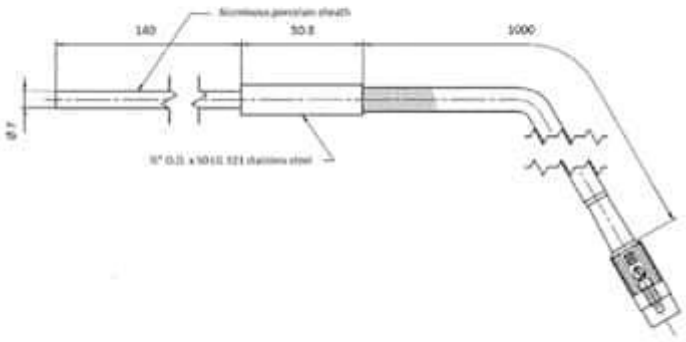
Combines two controllers into one, for controlling two independent temperature processes

- Models available for type J, K, or T thermocouples or RTD probes
- Setpoint is easily and securely changed with an interface key
  These controllers are designed for controlling two independent temperature processes. and features modern control technology that produces greater temperature stability. The space saving design combines two controllers into one unit to maximize bench space. Each unit displays both the setpoint and process temperature. Auto-tune minimizes setpoint overshoot and feature the ablity to learns your process producing greater stability. The controller also features an audible alarm function, and two panel mounted receptacles that accept three-prong plugs. Select from models for types J, K, or T thermocouples with miniconnectors, or 100 ohm platinum RTD probes. This unit comes with a lattice support bracket, which is ideal for mounting to maximize space.
-

item	DIN Size	Power (VAC)	Description
 EW-36225-71	1/32	120	2-Zone Temperature Controller; Type J, 120V/15A
 EW-36225-72	1/32	120	2-Zone Temperature Controller; Type K, 120V/15A
 EW-36225-73	1/32	120	2-Zone Temperature Controller; Type T, 120V/15A

item	DIN Size	Power (VAC)	Description
 EW-36225-74	1/32	120	2-Zone Temperature Controller; RTD, 120V/15A

Cole-Parmer® Temperature Probes for Cole-Parmer® CN-200 Series Digital Heating Controllers



Choose the right temperature probe for your Electrothermal digital heating controller

These temperature probes are suitable for use with your Electrothermal digital heating controller, 32587-00 and -01. Controller sold separately.

item	Max Temperature (° C)	Probe Type	Description
 EW-32587-98	800	PT100, 2-wire, Class B	Digital Controller Temperature Probe, High-Temp
 EW-32587-99	250	PT100, 2-wire, Class A	Digital Controller Temperature Probe, Extra-Long
EW-99965-02	250	PT100, 4-wire, Class A	Digital Controller Termperature Probe with PTFE Sleeving
EW-99965-03	400	PT100, 2-wire, Class A	Digital Controller Temperature Probe; 400°C

Cole-Parmer® Thermocouple Wire - 30 Gauge

Make your own extension cables

Wire comes in 30 gauge size, ideal for fabricating your own probes or extension cables (meets ANSI and ASTM standards). Choose from wire with fluorinated ethylene propylene resin (FEP/FEP) or fiberglass materials as well as in 100-ft or 1000-ft lengths for any application.

item	Length (ft)	Material	Max Temperature (° F)
 EW-08541-00	100	Fluorinated ethylene propylene (FEP)	400
 EW-08541-01	100	Fiberglass	900
 EW-08541-02	100	Fluorinated ethylene propylene (FEP)	400
 EW-08541-03	100	Fiberglass	900

item	Length (ft)	Material	Max Temperature (° F)
 EW-08541-04	100	Fluorinated ethylene propylene (FEP)	400
 EW-08542-01	1000	Fiberglass	900
 EW-08542-02	1000	Fluorinated ethylene propylene (FEP)	400
 EW-08542-03	1000	Fiberglass	900

item	Length (ft)	Material	Max Temperature (° F)
 EW-08542-04	1000	Fluorinated ethylene propylene (FEP)	400
 EW-08542-05	1000	Fiberglass	900

Cole-Parmer® DO Probe Cables

Polarographic DO cables for DO meters and electrodes

- 100-Ohm RTD ATC
  Choose from 5- or 10-ft options, with or without BNC connection.

item	Description
 EW-05663-44	Polarographic DO probe cable, 100-Ohm RTD ATC, 10-ft cable, stripped ends
 EW-29029-02	Polarographic DO probe cable, 100-Ohm RTD ATC, 5-ft cable, BNC connector

Cole-Parmer® Thermocouple Heavy-Duty Extra-Long Penetration Probes

COLE-PARMER

Heavy-Duty Extra-Long Penetration Probes Are Designed For Soft and Semi-Soft Materials

- Response Time: 2 seconds or greater.
- ABS handles provide a light weight design for ease of use along with durability.
- Probe handles feature a strain relief spring that protects the cable connection against damage due to repeated flexing and tugging.
- Each probe comes with color coded ANSI miniconnectors: type J-black, type K-yellow, and type T-blue.
- Custom designs or changes to this product are available upon request

Note: the temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles

are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless Steel handles are rated at 450°F (232°C); Mini Connectors are rated to 392°F (200°C).

Warning: This product is not approved or intended for, and should not be used for medical, clinical, surgical or other patient oriented applications.

item	Max Temperature (° F)	Min Temperature (° F)	Probe Type
 EW-93601-42	1400	32	J
 EW-93601-44	1652	-250	K
 EW-93601-46	450	-328	T

item	Max Temperature (° F)	Min Temperature (° F)	Probe Type
 EW-93756-03	1400	32	J
 EW-93756-04	1400	32	J
 EW-93756-06	1400	32	J

item	Max Temperature (° F)	Min Temperature (° F)	Probe Type
 EW-93756-23	1650	-250	K
 EW-93756-24	1650	-250	K
 EW-93756-26	1650	-250	K

item	Max Temperature (° F)	Min Temperature (° F)	Probe Type
 EW-93756-44	500	-328	T
 EW-93756-46	500	-328	T
 EW-93756-63	500	-328	T

Cole-Parmer® Thermocouple Surface Probes with Rollers

Surface Roller Probes Designed to Measure a Wide Range of Convex or Uneven Surfaces

- Each probe comes with a flexible ribbon ideal for uses on uneven or round surfaces
- Can be used on slow moving surfaces
- Response Time: 1.7 seconds or greater
- Each probe comes with a color coded ANSI coiled cable: type J-black, type K-yellow, type T-blue, and type E-purple.
- Custom designs or changes to this product are available upon request
  Note: the temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless Steel handles are rated at 450°F (232°C); Mini Connectors are rated to 392°F (200°C).
-

item	Max Temperature (° F)	Probe Type
 EW-08512-95	600	E

item	Max Temperature (° F)	Probe Type
 EW-08516-95	900	K
 EW-08517-95	600	J

Cole-Parmer® Economical RTD Probes with Coiled Cables

Designed to give the same accuracy and benefits of a standard RTD probe in a compact economical design

- Time Constant: 3 seconds or greater
- Custom designs or changes to this product are available upon request
  Maximum error for probe assembly is ±1.1°C + 0.12% of reading below 300°F, ±0.35% of reading above 300°F. Alpha coefficient is 0.003850 omega/omega/°C (DIN IEC 751). Resistance at ice point (0°C) is 100 omega.

  Note: Time constant is the time required to reach 63.2% of the new reading. To determine how long it will take to reach 99% of the new reading multiply the time constant by five.

  Note: the temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless Steel handles are rated at 450°F (232°C); Mini Connectors are rated to 392°F (200°C).
-

item	Max Temperature (° F)	Description
 EW-93821-00	750	RTD Probe, 100 Ohm, Digi-Sense® 3-Pin Connector, 4" Length, 5 ft Coil Cord

item	Max Temperature (° F)	Description
 EW-93821-06	400	PFA-Insulated RTD Probe, 100 Ohm, Digisense® 3-Pin Connector, 4.5" Length, 5 ft Coil Cord
 EW-93821-10	750	Pen RTD Probe, 100 Ohm, Digi-Sense® 3-Pin Connector, 2.5" Length, 5 ft Coil Cord
 EW-93821-15	900	Surface RTD Probe, 100 Ohm, Digi-Sense® 3-Pin Connector, 5.4" Length, 5 ft Coil Cord

item	Max Temperature (° F)	Description
 EW-93821-20	900	Air/Gas RTD Probe, 100 Ohm, Digi-Sense® 3-Pin Connector, 5" Length, 5 ft Coil Cord
 EW-93831-00	750	RTD Probe, 100 Ohm, ANSI 3-Blade Connector, 4" Length, 5 ft Coil Cord

Cole-Parmer® Thermocouple General-Purpose Air/Gas Probes

Air/Gas Probes Are Ideal for Measuring a Wide Range of Air Temperatures

- Response Time: 1.75 seconds or greater
- Exposed Junction is protected by a rigid stainless steel shield minimize error from radiated heat.
- Each probe comes with a color coded ANSI coiled cable: type J-black, type K-yellow, type T-blue, and type E-purple.
- Custom designs or changes to this product are available upon request
  Note: the temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless Steel handles are rated at 450°F (232°C); Mini Connectors are rated to 392°F (200°C).
-

item	Max Temperature (° F)	Probe Type
 EW-08500-75	500	T

item	Max Temperature (° F)	Probe Type
 EW-08516-75	1000	K
 EW-08517-75	1000	J

Cole-Parmer® Thermocouple General-Purpose Penetration Probes

General-Purpose Penetration Probes Are Designed For Soft and Semi-Soft Materials

- Response Time: 2 seconds or greater.
- ABS handles provide a light weight design for ease of use along with durability.
- Probe handles feature a strain relief spring that protects the cable connection against damage due to repeated flexing and tugging.
- Each probe comes with color coded ANSI miniconnectors: type J-black, type K-yellow, and type T-blue.
- Custom designs or changes to this product are available upon request
  Note: the temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless Steel handles are rated at 450°F (232°C); Mini Connectors are rated to 392°F (200°C).

  Warning: This product is not approved or intended for, and should not be used for medical, clinical, surgical or other patient oriented applications.

-

item	Max Temperature (° F)	Probe Type	Sheath Length (in)
 EW-08500-65	400	T	4

item	Max Temperature (° F)	Probe Type	Sheath Length (in)
 EW-08516-65	400	K	4
EW-08517-65	400	J	4

Cole-Parmer® Thermocouple Heavy-Duty Penetration Probes

Heavy-Duty Penetration Probes Are Designed For Soft and Semi-Soft Materials

- Response Time: 4 seconds or greater.
- ABS handles provide a light weight design for ease of use along with durability.
- Probe handles feature a strain relief spring that protects the cable connection against damage due to repeated flexing and tugging.
- Each probe comes with color coded ANSI miniconnectors: type J-black, type K-yellow, and type T-blue.
- Custom designs or changes to this product are available upon request
  Note: the temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless Steel handles are rated at 450°F (232°C); Mini Connectors are rated to 392°F (200°C).

Warning: This product is not approved or intended for, and should not be used for medical, clinical, surgical or other patient oriented applications.

item	Max Temperature (° F)	Probe Type
 EW-93601-22	1400	J

item	Max Temperature (° F)	Probe Type
 EW-93601-24	1652	K
 EW-93601-26	500	T

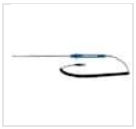
Cole-Parmer® RTD Probe with Handle

Designed to give the same accuracy and benefits of a RTD Probe in a compact economical design

- Time constant : 1-3 seconds or greater
- Custom designs or changes to this product are available upon request
  Maximum error for probe assembly is ±1.1°C + 0.12% of reading below 300°F, ±0.35% of reading above 300°F. Alpha coefficient is 0.003850 Ω/Ω/°C (DIN IEC 751). Resistance at ice point (0°C) is 100 Ω.

  Note: Time constant is the time required to reach 63.2% of the new reading. To determine how long it will take to reach 99% of the new reading multiply the time constant by five.

  Note: the temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless Steel handles are rated at 450°F (232°C); Mini Connectors are rated to 392°F (200°C).
-

item	Connector Type	Max Temperature (° F)	Sheath Length (in)
 EW-08117-70	Digi-Sense 3-pin	932	10

item	Connector Type	Max Temperature (° F)	Sheath Length (in)
 EW-08117-72	Digi-Sense 3-pin	932	18
 EW-08117-73	Digi-Sense 3-pin	932	10
 EW-08117-74	Digi-Sense 3-pin	932	18

item	Connector Type	Max Temperature (° F)	Sheath Length (in)
 EW-08117-75	Digi-Sense 3-pin	932	8.1
 EW-08117-80	Digi-Sense 3-pin	700	2
 EW-08117-85	Digi-Sense 3-pin	900	4

item	Connector Type	Max Temperature (° F)	Sheath Length (in)
 EW-08117-87	Digi-Sense 3-pin	400	10
 EW-08117-90	Digi-Sense 3-pin	932	10
 EW-93831-70	ANSI 3-blade	932	10

item	Connector Type	Max Temperature (° F)	Sheath Length (in)
 EW-93831-71	ANSI 3-blade	932	18
 EW-93831-73	ANSI 3-blade	932	10
 EW-93831-80	ANSI 3-blade	700	2

item	Connector Type	Max Temperature (° F)	Sheath Length (in)
 EW-93831-85	ANSI 3-blade	900	4
 EW-93831-87	ANSI 3-blade	400	10

Cole-Parmer® Thermocouple General-Purpose Surface Probes

Designed to measure the temperature at the surface without perpetrating the material

- These probes are designed to measure surface temperature without penetrating the surface
- Ideal for monitoring flat surfaces such as hot plates, furnaces, or molds
- Response Time: 1.25 seconds or greater
- Each probe comes with color coded ANSI coiled cable: type J-black, type K-yellow, type T-blue, and type E-purple.
- Custom designs or changes to this product are available upon request.
  Note the temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless Steel handles are rated at 450°F (232°C); Mini Connectors are rated to 392°F (200°C).
-

item	Max Temperature (° F)	Probe Type	Description
 EW-08500-60	500	T	Type-T, Straight Surface Probe, 10" L, Mini Conn, Exp, 5ft Coil Cord

item	Max Temperature (° F)	Probe Type	Description
 EW-08516-60	1200	K	Type-K, Straight Surface Probe, 10" L, Mini Conn, Exp, 5ft Coil Cord
 EW-08517-60	1200	J	Type-J, Straight Surface Probe, 10" L, Mini Conn, Exp, 5ft Coil Cord

Cole-Parmer® Thermocouple 90 Degree-Angle Compact Design Surface Probes

Designed to measure surface temperature without penetrating the surface

- These probes are designed to measure surface temperature without penetrating the surface
- Ideal for monitoring flat surfaces such as hot plates, furnaces, or molds
- Each probe comes with a lower profile tip than other surface probes for hard to reach areas
- Response Time: 1.25 seconds or greater
- Each probe comes with a color coded ANSI coiled cable: type J-black, type K-yellow, type T-blue, and type E-purple
- Custom designs or changes to this product are available upon request
  Note: the temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless Steel handles are rated at 450°F (232°C); Mini Connectors are rated to 392°F (200°C).

item	Max Temperature (° F)	Probe Type
 EW-08500-63	500	T

item	Max Temperature (° F)	Probe Type
 EW-08516-63	1200	K
 EW-08517-63	1200	J

Cole-Parmer® Thermocouple General-Purpose Probes with Miniconnector

Gerneral-Purpose Probes Are Designed For Use with Liquids, Gases and Semisolids.

- Response Time: 1.7 seconds or greater
- ABS handles provide a light weight design for ease of use along with durability.
- Probe handles feature a strain relief spring that protects the cable connection against damage due to repeated flexing and tugging.
- Each probe comes with color coded ANSI miniconnectors: type J-black, type K-yellow, type T-blue, and type E-purple.
- Custom designs or changes to this product are available upon request
  Note: the temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless Steel handles are rated at 450°F (232°C); Mini Connectors are rated to 392°F (200°C).
-

item	Max Temperature (° F)	Min Temperature (° F)	Probe Type
 EW-08500-55	752	-328	T

item	Max Temperature (° F)	Min Temperature (° F)	Probe Type
 EW-08512-55	1599.8	-328	E
 EW-08516-55	1650.2	-250	K
 EW-08517-55	1400	32	J

Cole-Parmer® Thermocouple General-Purpose Extra-long Probes - PFT-Coating

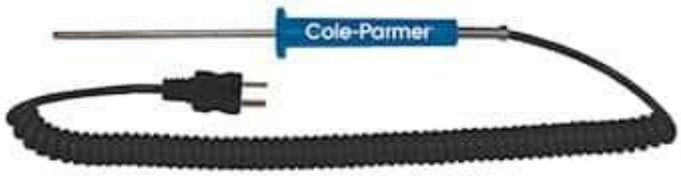
Gerneral-Purpose Probes with PTFE-Coating Are Designed For Use with Corrosive Chemicals and Strong Acids

- Response Time: 2 seconds or greater
- ABS handles provide a light weight design for ease of use along with durability.
- Probe handles feature a strain relief spring that protects the cable connection against damage due to repeated flexing and tugging.
- Custom designs or changes to this product are available upon request
- Each probe comes with color coded ANSI miniconnectors: type J-black, type K-yellow, and type T-blue.
- Custom designs or changes to this product are available upon request
  Note: the temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless Steel handles are rated at 450°F (232°C); Mini Connectors are rated to 392°F (200°C).

item	Max Temperature (° F)	Probe Type	Description
 EW-93812-00	400	J	Type-J, Extra-Long PFA Coated Probe, Mini Conn, 10" L. .145" Dia, Grd

item	Max Temperature (° F)	Probe Type	Description
 EW-93812-02	400	K	Type-K, Extra-Long PFA Coated Probe, Mini Conn, 10" L. .145" Dia, Grd
 EW-93812-04	400	T	Type-T, Extra-Long PFA Coated Probe, Mini Conn, 10" L. .145" Dia, Grd

Cole-Parmer® Thermocouple General-Purpose Compact Probes



General-Purpose Probes Are Designed For Use with Liquids, Gases and Semisolids

- Response Time: 2 seconds or greater.
- Probe comes with PVC handle
- Each probe comes with color coded ANSI miniconnectors: type J-black, type K-yellow, and type T-blue.
- Custom designs or changes to this product are available upon request
  Note: the temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless Steel handles are rated at 450°F (232°C); Mini Connectors are rated to 392°F (200°C).

item	Max Temperature (° F)	Probe Type	Description
 EW-08439-60	450	J	Compact Thermocouple Probe, 4.5" L, Grnd; Type J

item	Max Temperature (° F)	Probe Type	Description
 EW-08439-62	700	K	Compact Thermocouple Probe, 4.5" L, Grounded; Type K
 EW-08439-64	450	T	Compact Thermocouple Probe, 4.5" L, Grnd; Type T

Cole-Parmer® Thermocouple General-Purpose Small-Diameter Probes

Gerneral-Purpose Probes Are Designed For Use with Liquids, Gases and Semisolids

- Small-Diameter probes provide quick readings in hard to reach areas.
- Response Time: 1.2 seconds or greater.
- Acrylonitrile butadiene styrene (ABS) handles provide a light weight design for ease of use along with durability.
- Probe handles feature a strain relief spring that protects the cable connection against damage due to repeated flexing and tugging.
- Each probe comes with color coded ANSI miniconnectors: type J-black, type K-yellow, and type T-blue.
- Custom designs or changes to this product are available upon request

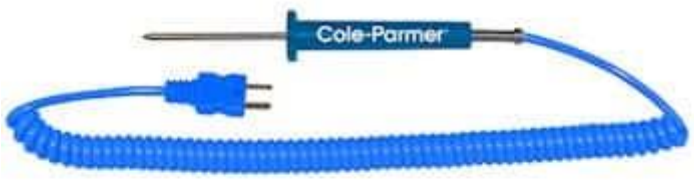
Note the temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless Steel handles are rated at 450°F (232°C); Mini Connectors are rated to 392°F (200°C).

- Max Temperature (° F) Select

item	Max Temperature (° F)	Min Temperature (° F)	Probe Type
 EW-08505-55	700	32	J

item	Max Temperature (° F)	Min Temperature (° F)	Probe Type
 EW-08505-56	700	-250	K
 EW-08505-57	450	-328	T

Cole-Parmer® Thermocouple Compact Penetration Probes



Penetration Probes Are Designed For Soft and Semi-Soft Materials

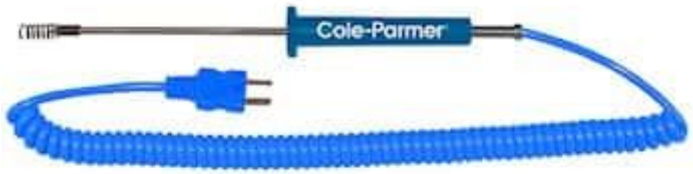
- Response Time: 2 seconds or greater
- Probe comes with PVC Handle
- Probe handles feature a strain relief spring that protects the cable connection against damage due to repeated flexing and tugging.
- Each probe comes with color coded ANSI miniconnectors: type J-black, type K-yellow, and type T-blue.
- Custom designs or changes to this product are available upon request
  Note: the temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless Steel handles are rated at 450°F (232°C); Mini Connectors are rated to 392°F (200°C).

  Warning: This product is not approved or intended for, and should not be used for medical, clinical, surgical or other patient oriented applications.

item	Max Temperature (° F)	Probe Type
 EW-08439-80	300	J

item	Max Temperature (° F)	Probe Type
 EW-08439-82	300	K
 EW-08439-84	300	T

Cole-Parmer® Thermocouple Compact Air/Gas Probes



Economical Air/Gas probes are ideal for quick readings

- Exposed Junction is protected by a wire coil shield to minimize error from radiated heat
- A compact light weight design allows for ease of use when space is limited but rugged enough for industrial environments.
- Response Time: 1.75 seconds or greater
- Each probe comes with a color coded ANSI coiled cable: type J-black, type K-yellow, type T-blue, and type E-purple.
- Custom designs or changes to this product are available upon request
  Note: the temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless Steel handles are rated at 450°F (232°C); Mini Connectors are rated to 392°F (200°C).

item	Max Temperature (° F)	Min Temperature (° F)	Probe Type
 EW-08439-90	650	32	J

item	Max Temperature (° F)	Min Temperature (° F)	Probe Type
 EW-08439-92	650	-250	K
 EW-08439-94	572	-328	T

Cole-Parmer® Thermocouple 45 Degree-Angle Surface Probes

Designed to measure surface temperature without penetrating the surface

- Ideal for monitoring flat surfaces such as hot plates, furnaces, or molds
- Response Time: 1.25 seconds or greater
- Each probe comes with a color coded ANSI coiled cable: type J-black, type K-yellow, type T-blue, and type E-purple.
- Custom designs or changes to this product are available upon request.
  Note: the temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless Steel handles are rated at 450°F (232°C); Mini Connectors are rated to 392°F (200°C).

item	Max Temperature (° F)	Probe Type
 EW-08500-61	650	T

item	Max Temperature (° F)	Probe Type
 EW-08516-61	1200	K
 EW-08517-61	1200	J

Cole-Parmer® 400 Series Thermistor Probes with Handles

Thermistor Probes Offer Excellent Accuracy Over the Biological Temperature Range

- Probes are electronically isolated and with a ¼” mono plug (unless otherwise specified).
- Probes are designed for multiple applications
- Epoxy coated probes can be used in liquid immersions.
- Time Constant: 1-4 seconds or greater
- Custom designs or changes to this product are available upon request
  Note: Time constant is the time required to reach 63.2% of the new reading. To determine how long it will take to reach 99% of the new reading multiply the time constant by five.

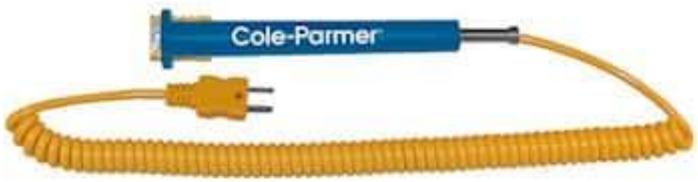
  Note: the temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless Steel handles are rated at 450°F (232°C); Mini Connectors are rated to 392°F (200°C).

item	Connector Type	Max Temperature (° F)	Description
 EW-93823-00	Phono plug	212	Deep Wtr/Soil Therm Probe PHono Plug 2" L 1/4" Dia 50ft PVC Flx Cable

item	Connector Type	Max Temperature (° F)	Description
 EW-93823-01	Phono plug	212	Surface Temperature Probe, Phono Plug, 1 x 13 / 16" Alum, 10ft PVC Fl x Cable
 EW-93823-05	Phono plug	212	Air /Gas Therm Probe Phono Plug 3-3/4" L 1/4" Dia 10ft PVC Fl x Cable
 EW-93824-00	Phono plug	212	Immersion Thermistor Probe, PHono Plug 10" L .188" Dia 5ft Coil

item	Connector Type	Max Temperature (° F)	Description
 EW-93824-12	Phono plug	212	Gen-Purpose PFA Ctd Thermistor Probe PHono Plug 10" L .200" Dia 5ft Coil
 EW-93824-30	Phono plug	212	Penetration Ctd Thermistor Probe, PHono Plug, 4" L, .188" Dia, 5ft Coil

Cole-Parmer® Quick Disconnect Thermocouple Probe Handles (Only)



Designed to install detachable probes directly into the handle

- Handle adaptor excepts detachable probes come with a mini connectors
- Compatible with several different designs of detachable probes.
- Ideal for switching out probes when working with multiple applications
- Handle includes a 5ft coil cord with mini connector
- Each probe comes with a color coded ANSI coiled cable: type J-black, type K-yellow, type T-blue, and type E-purple
- Custom designs or changes to this product are available upon request
  Note: handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless Steel handles are rated at 450°F (232°C); Mini Connectors are rated to 392°F (200°C).

item	Max Temperature (° F)	Probe Type
 EW-18526-53	200	K

item	Max Temperature (° F)	Probe Type
 EW-18526-54	200	J

Cole-Parmer® Thermocouple 90 Degree-Angle Surface Probes

Designed to measure surface temperature without penetrating the surface

- Ideal for monitoring flat surfaces such as hot plates, furnaces, or molds
- Response Time: 1.25 seconds or greater
- Each probe comes with a color coded ANSI coiled cable: type J-black, type K-yellow, type T-blue, and type E-purple.
- Custom designs or changes to this product are available upon request
  Note: the temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to

220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless Steel handles are rated at 450°F (232°C); Mini Connectors are rated to 392°F (200°C).

item	Max Temperature (° F)	Probe Type
 EW-08500-64	500	T
 EW-08516-64	1200	K
 EW-08517-64	1200	J

Cole-Parmer® Thermocouple Small Diameter Surface Probes

These probes are designed to measure surface temperature without penetrating the surface

- Ideal for monitoring flat surfaces such as hot plates, furnaces, or molds
- These probes are ideal for confined surface area readings or hard to reach places
- Response Time: 1.25 seconds or greater
- Each probe comes with a color coded ANSI coiled cable: type J-black, type K-yellow, type T-blue, and type E-purple
- Custom designs or changes to this product are available upon request
  Note: the temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless Steel handles are rated at 450°F (232°C); Mini Connectors are rated to 392°F (200°C).
-

item	Max Temperature (° F)	Probe Type
 EW-08500-62	500	T

item	Max Temperature (° F)	Probe Type
 EW-08516-62	1200	K
 EW-08517-62	1200	J

Cole-Parmer® Thermocouple Hypodermic Tip Penetration Probes with Handle

Hypodermic Tip Penetration Probes Are Designed for Soft and Semi-Soft Materials

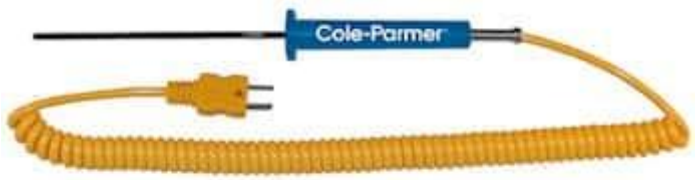
- Ideal for cecking food temperatures
- Response Time: 1.2 seconds or greater
- ABS handles provide a light weight design for ease of use along with durability.
- Probe handles feature a strain relief spring that protects the cable connection against damage due to repeated flexing and tugging.
- Each probe comes with color coded ANSI miniconnectors: type J-black, type K-yellow, and type T-blue.
- Custom designs or changes to this product are available upon request
Note: the temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless Steel handles are rated at 450°F (232°C); Mini Connectors are rated to 392°F (200°C).

Warning: This product is not approved or intended for, and should not be used for medical, clinical, surgical or other patient oriented applications.

item	Max Temperature (° F)	Probe Type
 EW-93601-02	400	J

item	Max Temperature (° F)	Probe Type
 EW-93601-04	600	K
 EW-93601-06	400	T

Cole-Parmer® Thermocouple General-Purpose Economical Probes - PTFE-Coating



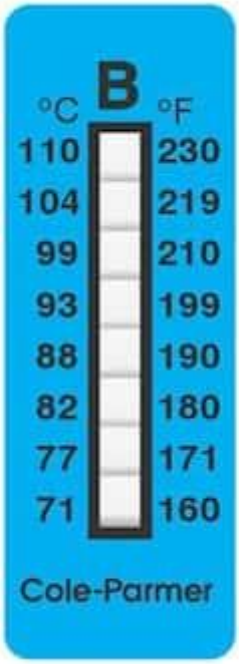
Gerneral-Purpose Probes with PTFE-Coating Are Designed For Use with Corrosive Chemicals and Strong Acids

- Response Time: 2 seconds or greater.
- Probe comes with PVC Handle.
- Probe handles feature a strain relief spring that protects the cable connection against damage due to repeated flexing and tugging.
- Each probe comes with color coded ANSI miniconnectors: type J-black, type K-yellow, and type T-blue.
- Custom designs or changes to this product are available upon request
  Note: the temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless Steel handles are rated at 450°F (232°C); Mini Connectors are rated to 392°F (200°C).
-

item	Max Temperature (° F)	Probe Type	Sheath Length (in)
 EW-08441-10	400	J	4.5

item	Max Temperature (° F)	Probe Type	Sheath Length (in)
 EW-08441-12	400	K	4.5
 EW-08441-14	400	T	4.5

Cole-Parmer® Irreversible High-Temperature 8- and 9-Point Vertical Labels/Indicators



Reliable proof that the product was maintained at the correct temperature

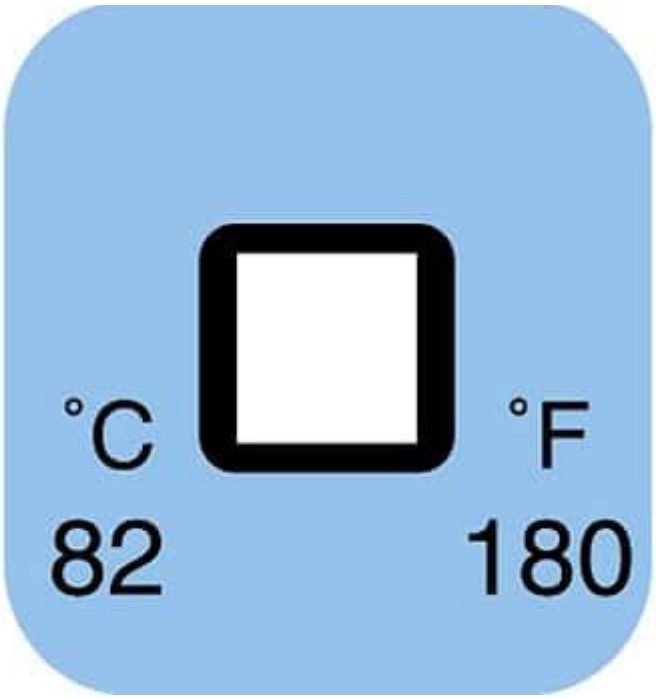
- Used as a quick inspection tool that the product is in usable condition during the shipping and receiving process
- Save time and money due to costly recalls
- Self-adhesive design
  Labels are made up of a series of temperature-sensitive elements sealed between heat-resistant substrates with transparent windows. Each element changes color distinctly as its rated temperature is met or exceeded. The changes to the label are irreversible, providing a temperature history of the surface being monitored. The labels will not delaminate when removed, allowing them to be attached to an inspection report to serve as a permanent record. Ideal for use in the food, automotive, molding and metal working industries. Accuracy is ±1.8°F below 212°F and ±1°F above 212°F. Shelf life: 1 year after date of purchase.
-

item	Max temperature (° F)	Temperature Points (° F)	Description
 EW-08068-20	150	100, 105, 110, 115, 120, 130, 140, 150	Irreversible 8-Point Vertical Temperature Label, 100-150F/37-65C; 25/Pk

item	Max temperature (° F)	Temperature Points (° F)	Description
 EW-08068-22	230	160, 170, 180, 190, 200, 210, 220, 230	Irreversible 8-Point Vertical Temperature Label, 160-230F/71-110C; 25/Pk
 EW-08068-24	310	240, 250, 260, 270, 280, 290, 300, 310	Irreversible 8-Point Vertical Temperature Label, 240-310F/116-154C; 25/Pk
 EW-08068-26	390	320, 330, 340, 350, 360, 370, 380, 390	Irreversible 8-Point Vertical Temperature Label, 230-390F/160-199C; 25/Pk
 EW-08068-28	500	400, 410, 420, 435, 450, 465, 480, 490, 500	Irreversible 9-Point Vertical Temperature Label, 400-500F/204-260C; 25/Pk

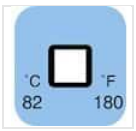
item	Max temperature (° F)	Temperature Points (° F)	Description
 EW-08068-90	500	100 to 500	Irreversible 8 and 9-Point Temperature Label Kit , 5 of Each 5 Types

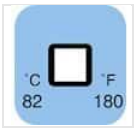
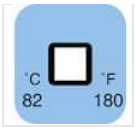
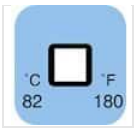
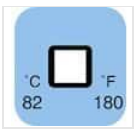
Cole-Parmer® Irreversible High-Temperature 1-Point Square Labels / Indicators

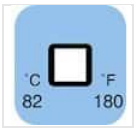
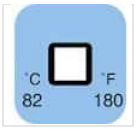
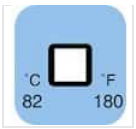
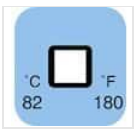


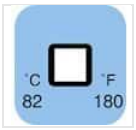
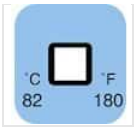
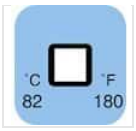
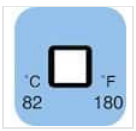
Reliable proof that the product was maintained at the correct temperature

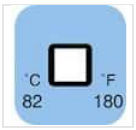
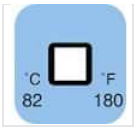
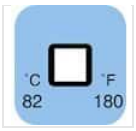
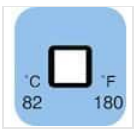
- Used as a quick inspection tool that the product is in usable condition during the shipping and receiving process
- Save time and money due to costly recalls
- Self-adhesive design
  Labels are made up of a series of temperature-sensitive elements sealed between heat-resistant substrates with transparent windows. Each element changes color distinctly as its rated temperature is met or exceeded. The changes to the label are irreversible, providing a temperature history of the surface being monitored. The labels will not delaminate when removed, allowing them to be attached to an inspection report to serve as a permanent record. Ideal for use in the food, automotive, molding and metal working industries. Accuracy is ±1.8°F below 212°F and ±1°F above 212°F. Shelf life: 1 year after date of purchase.
-

item	Height (in)	Number of Temperature Indicators	Temperature Points (° F)
 EW-08068-31	1/2	1	84

item	Height (in)	Number of Temperature Indicators	Temperature Points (° F)
 EW-08068-32	1/2	1	93
 EW-08068-33	1/2	1	99
 EW-08068-34	1/2	1	104
 EW-08068-35	1/2	1	108

item	Height (in)	Number of Temperature Indicators	Temperature Points (° F)
 EW-08068-36	1/2	1	111
 EW-90309-00	1/2	1	115
 EW-90309-05	1/2	1	140
 EW-90309-10	1/2	1	160

item	Height (in)	Number of Temperature Indicators	Temperature Points (° F)
 EW-90309-15	1/2	1	171
 EW-90309-20	1/2	1	180
 EW-90309-25	1/2	1	190
 EW-90309-30	1/2	1	210

item	Height (in)	Number of Temperature Indicators	Temperature Points (° F)
 EW-90309-35	1/2	1	230
 EW-90309-40	1/2	1	250
 EW-90309-45	1/2	1	261
 EW-90309-50	1/2	1	320

Cole-Parmer® Reusable Temperature Indicating Strips

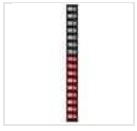
Each style covers a wide range of temperatures, for use in many different application

- Non-toxic / non-hazardous temperature measuring alternative
- Easy to read and unbreakable
  These self-adhesive reusable temperature labels provide a safe, accurate, easy-to-read means for monitoring temperatures. Indicating strips use liquid crystal technology to display the current temperature at an economical cost. The strip will turns a green color when ambient temperature is reached. Shelf life: 1 year after date of purchase.

item	Max temperature (° F)	Temperature Points (° F)	Description
 EW-08078-48	120	26 to 120°F in 2° increments	Reversible 48-Point Vertical Magnetic Temperature Label, 26-120F; 10/Pk

item	Max temperature (° F)	Temperature Points (° F)	Description
 EW-09037-06	32	32 ,41, 50, 59, 68, 77, 86	Reversible 7-Point Horizontal Temperature Label, -30C-0C/-22-32F; 10/Pk
 EW-09037-07	86	32-86	Reversible 7-Point Horizontal Temperature Label, 0C-32C/32-86F; 10/Pk
 EW-09037-08	140	86-140	Reversible 7-Point Horizontal Temperature Label, 30C-60C/86-140F; 10/Pk
 EW-09037-09	184	140-194	Reversible 7-Point Horizontal Temperature Label, 60C-90C/140-194F; 10/Pk

item	Max temperature (° F)	Temperature Points (° F)	Description
 EW-09037-10	248	194, 203, 212, 221, 230, 239, 248	Reversible 7-Point Horizontal Temperature Label, 90C-120C/194-248F; 10/Pk
 EW-09037-19	56	26 to 56	Reversible 16-Point Vertical Temperature Label, -3-13C/26-56F; 10/Pk
 EW-09037-20	88	58 to 88	Reversible 16-Point Vertical Temperature Label, 14-31C/58-88F; 10/Pk
 EW-09037-21	120	90 to 120	Reversible 16-Point Vertical Temperature Label, 32-49C/90-120F; 10/Pk

item	Max temperature (° F)	Temperature Points (° F)	Description
 EW-09037-22	152	122, 124,126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152	Reversible 16-Point Vertical Temperature Label, 50-66C/122-152F; 10/Pk
 EW-09037-23			Reversible 16-Point Vertical Temperature Label, 68-83C/154-184F; 10/Pk
 EW-09100-07	184	154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184	Reversible 48-Point Vertical Adhesive Temperature Label, 154-184F; 25/Pk
 EW-90306-10	120	106, 108, 110, 112, 114, 115, 118, 120	Reversible 8-Point Vertical Temperature Label, 41-49C/106-120F; 10/Pk

item	Max temperature (° F)	Temperature Points (° F)	Description
EW-90316-05			

Cole-Parmer® Irreversible 5-Point Temperature Labels / Indicators

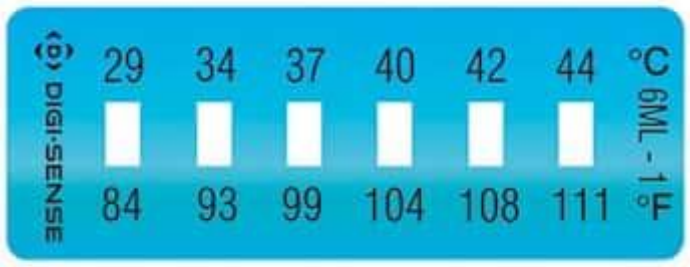
Reliable proof that the product was maintained at the correct temperature

- Used as a quick inspection tool that the product is in usable condition during the shipping and receiving process
- Save time and money due to costly recalls
- Self-adhesive design
  Labels are made up of a series of temperature-sensitive elements sealed between heat-resistant substrates with transparent windows. Each element changes color distinctly as its rated temperature is met or exceeded. The changes to the label are irreversible, providing a temperature history of the surface being monitored. The labels will not delaminate when removed, allowing them to be attached to an inspection report to serve as a permanent record. Ideal for use in the food, automotive, molding and metal working industries. Accuracy is ±1.8°F below 212°F and ±1°F above 212°F. Shelf life: 1 year after date of purchase.

item	Diameter (in)	Max temperature (° F)	Temperature Points (° F)
 EW-08068-21	1/2	435	390, 399, 410, 421, 435
 EW-08068-23	1/2	500	450, 466, 480, 489, 500
 EW-90303-20	5/8	130	105, 110, 115, 120, 130
 EW-90303-22	5/8	180	140, 150, 160, 170, 180

item	Diameter (in)	Max temperature (° F)	Temperature Points (° F)
 EW-90303-24	5/8	230	190, 200, 210, 220, 230
 EW-90303-26	5/8	280	240, 250, 260, 270, 280
 EW-90303-28	5/8	330	290, 300, 310, 320, 330
 EW-90303-30	5/8	380	340, 350, 360, 370, 380

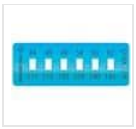
Cole-Parmer® Irreversible High-Temperature 6-Point Horizontal Labels / Indicators

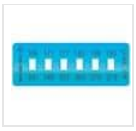


Reliable proof that the product was maintained at the correct temperature

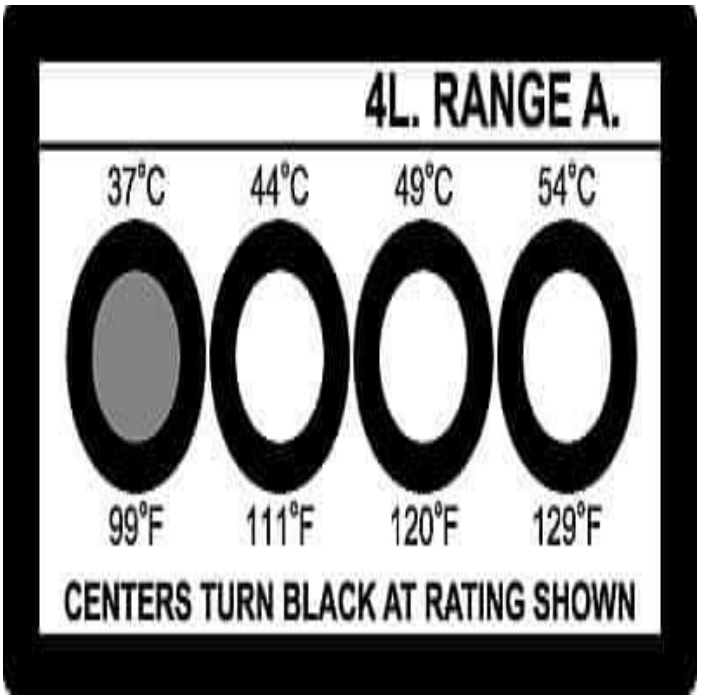
- Used as a quick inspection tool that the product is in usable condition during the shipping and receiving process
- Save time and money due to costly recalls
- Self-adhesive design
  Labels are made up of a series of temperature-sensitive elements sealed between heat-resistant substrates with transparent windows. Each element changes color distinctly as its rated temperature is met or exceeded. The changes to the label are irreversible, providing a temperature history of the surface being monitored. The labels will not delaminate when removed, allowing them to be attached to an inspection report to serve as a permanent record. Ideal for use in the food, automotive, molding and metal working industries. Accuracy is ±1.8°F below 212°F and ±1°F above 212°F. Shelf life: 1 year after date of purchase.
-

item	Height (in)	Max temperature (° F)	Temperature Points (° F)
 EW-90308-91	1 1/4	108	84, 93, 99, 104, 108, 111

item	Height (in)	Max temperature (° F)	Temperature Points (° F)
 EW-90308-92	1 1/4	144	111, 115, 120, 129, 140, 144
 EW-90308-93	1 1/4	199	149, 160, 171, 180, 190, 199
 EW-90308-94	1 1/4	261	210, 219, 230, 241, 250, 261
 EW-90308-95	1 1/4	320	270, 280, 289, 300, 309, 320

item	Height (in)	Max temperature (° F)	Temperature Points (° F)
 EW-90308-96	1 1/4	379	331, 340, 351, 360, 370, 379
 EW-90308-97	1 1/4	450	390, 399, 410, 421, 435, 450
 EW-90308-98	1 1/4	554	460, 480, 489, 500, 536, 554

Cole-Parmer® Irreversible High-Temperature 4-Point Horizontal Labels / Indicators



Reliable proof that the product was maintained at the correct temperature

- Used as a quick inspection tool that the product is in usable condition during the shipping and receiving process
- Save time and money due to costly recalls
- Self-adhesive design
  Labels are made up of a series of temperature-sensitive elements sealed between heat-resistant substrates with transparent windows. Each element changes color distinctly as its rated temperature is met or exceeded. The changes to the label are irreversible, providing a temperature history of the surface being monitored. The labels will not delaminate when removed, allowing them to be attached to an inspection report to serve as a permanent record. Ideal for use in the food, automotive, molding and metal working industries. Accuracy is ±1.8°F below 212°F and ±1°F above 212°F. Shelf life: 1 year after date of purchase.
-

item	Height (in)	Max temperature (° F)	Temperature Points (° F)
 EW-90308-40	1 3/4	129	99, 111, 120, 129

item	Height (in)	Max temperature (° F)	Temperature Points (° F)
 EW-90308-45	1 3/4	171	140, 149, 160, 171
 EW-90308-50	1 3/4	210	180, 190, 199, 210
 EW-90308-55	1 3/4	250	219, 230, 241, 250
 EW-90308-60	1 3/4	289	261, 270, 280, 289

item	Height (in)	Max temperature (° F)	Temperature Points (° F)
 EW-90308-65	1 3/4	331	300, 309, 320, 331
 EW-90308-70	1 3/4	370	340, 351, 361, 370
 EW-90308-75	1 3/4	410	379, 390, 399, 410

Cole-Parmer® Irreversible Low-Temperature Indicators / Descending Labels

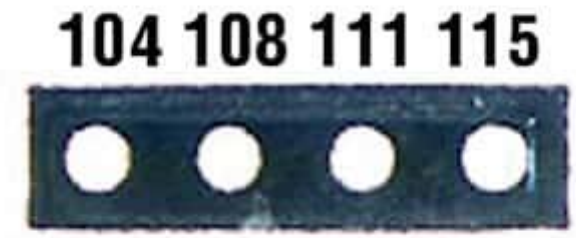
Reliable proof that the product was maintained at the correct temperature

- Used as a quick inspection tool that the product is in usable condition during the shipping and receiving process
- Save time and money due to costly recalls
- Self-adhesive design
  These labels offer a highly reliable and irreversible indication of exposure to low temperatures. Labels clearly indicate when the product to which it is attached to has been subjected to harsh temperatures, which could have detrimental effects on refrigerated pharmaceuticals, foods, chemicals, paints, and adhesives. Available in both ascending and descending style Accuracy is ±1°C of the rated temperature. Shelf life: one year after date of purchase.
-

item	Height (in)	Number of Temperature Indicators	Temperature Points (° F)
 EW-90309-60	1/4	1	32

item	Height (in)	Number of Temperature Indicators	Temperature Points (° F)
 EW-90309-65	1/4	1	36

Cole-Parmer® Irreversible High-Temperature 4-Point Micro Horizontal Labels / Indicators



Reliable proof that the product was maintained at the correct temperature

- Used as a quick inspection tool that the product is in usable condition during the shipping and receiving process
- Save time and money due to costly recalls
- Self-adhesive design
  Labels are made up of a series of temperature-sensitive elements sealed between heat-resistant substrates with transparent windows. Each element changes color distinctly as its rated temperature is met or exceeded. The changes to the label are irreversible, providing a temperature history of the surface being monitored. The labels will not delaminate when removed, allowing them to be attached to an inspection report to serve as a permanent record. Ideal for use in the food, automotive, molding and metal working industries. Accuracy is ±1.8°F below 212°F and ±1°F above 212°F. Shelf life: 1 year after date of purchase.
-

item	Height (in)	Max temperature (° F)	Temperature Points (° F)
 EW-08068-43	11/64	190	160, 171, 180, 190

item	Height (in)	Max temperature (° F)	Temperature Points (° F)
 EW-08068-46	11/64	309	280, 289, 300, 309
 EW-08068-47	11/64	351	320, 331, 340, 351

Cole-Parmer® Reusable Low-Temperature Indicating Strips

Ideal for use in refrigerator, freezer and cooler applications

- Nontoxic nonhazardous temperature-measuring alternative
  These self-adhesive reusable temperature labels provide a safe, accurate, easy-to-read means for monitoring low temperatures. Indicating strips use liquid crystal technology to display the current temperature range at an economical cost. Shelf life: 1 year after date of purchase.

item	Height (in)	Max temperature (° F)	Temperature Points (° F)
 EW-90308-80	5 1/2	54	28 to 54

item	Height (in)	Max temperature (° F)	Temperature Points (° F)
 EW-90308-85	5 1/2	30	(-5) to 30
 EW-90308-90	5 3/8	50	34 to 50

Cole-Parmer® Irreversible Thermostrip Waterproof Disinfection Labels

Provide proof of HACCP compliance that sanitizing temperature has been reached during dishwashing

- Waterproof—designed to withstand the rigors of a full wash
  Thermostrip labels are self-adhering and waterproof color-changing labels that measure the surface temperature of dishware in dishwashing machines. Label indicator will turn from white to black when surface temperature reaches rated temperature, providing reliable proof that the items being washed have been fully disinfected. Helps hygiene managers demonstrate that safety disinfection standards have been met.

  To use, attach label to the thickest clean dry dish, place in dishwasher, and run. Remove and retain label as a permanent record of temperature attained as an excellent evidencebase for HACCP. Accuracy is ±1.8°F (±1°C). Shelf life: one year after date of purchase.

item	Height (in)	Max temperature (° F)	Temperature Points (° F)
 EW-90308-11	1 3/4	170	150, 160, 170

item	Height (in)	Max temperature (° F)	Temperature Points (° F)
 EW-90308-12	1 3/4	180	160, 170, 180
 EW-90308-13	1 3/4	140	140
 EW-90308-14	1 3/4	160	160
 EW-90308-17	1 3/4	180	180

Cole-Parmer®

CN-200, CN-200D Series Analog/Digital Heating Controllers

- Analog: 4 different models of 1-way heating controllers
- Analog: Operate up to 800 W, 1100 W, 1800 W or 2300 W respectively
- Digital: PTFE-covered platinum resistance thermometer is included for measurements up to 270 °C
- Digital: Zinc die-cast outer case is suitable for the bench or can be mounted on a 12.7cm support rod
- Digital: Three-digit LED display allows you to set a 1°C resolution over a range of -10 °C to 800 °C
- 3-year warranty

CN-200 Analog Heating Controller

CN-200 Analog Heating Controller

CN-200 Series
Analog Heating Controllers

For all 1-Way Heating Controllers

The CN-200 series heating controllers have been designed to control the heating of resistive loads for bench top operation. The heating controllers deliver different levels of power according to your requirements and are suitable for HM series electromantles, the electric bunsen and heating tapes.

Each heating controller has two neon indicators: "Power On" white neon light and "Mantle/Bunsen Heater On" amber neon light. They all have a regulator control knob which can be turned clockwise to increase power. As the knob is turned, the heating controller's amber neon light will pulsate to show that power is being supplied to the equipment being controlled, e.g. mantles, heating tape. The pulse frequency will decrease as the regulator control knob setting is increased, and at maximum setting, the amber neon will be continually illuminated.

A support rod clamp is provided at the rear of each heating controller to take a standard 12.5 mm (1/2") diameter rod. They have a short mains lead with an IEC socket to connect them to the resistive load. An accessory extension mains lead is available where remote operation is required, e.g. in a fume extraction unit. The heating controllers can be mounted on standard 1/2" (12 mm) diameter scaffold or retort stands, they can also be wall mounted using a mounting bracket or stand directly on the bench.

Technical Specification

1-Way Heating Controller model	CN-200-800	CN-200-460-115	CN-200-2300	CN-200-1100-115	CN-200-1800	CN-200-1150-115
Electrical 230 VAC	230 VAC, 50 / 60 Hz, 800 W	Not applicable	230 VAC, 50 / 60 Hz, 2300W	Not applicable	230 VAC, 50 / 60 Hz, 1800 W	Not applicable
Electrical 115 VAC	Not applicable	115 VAC, 50 / 60 Hz, 460 W	Not applicable	115 VAC, 50 / 60 Hz, 1100 W	Not applicable	115 VAC, 50 / 60 Hz, 1100 W
Controller power consumption	1 Watt	1 Watt	1 Watt	1 Watt	1 Watt	1 Watt
Dimensions (W x H x D)	9.5 x 10.5 x 13 cm (3.7 x 4 x 5 ins)	9.5 x 10.5 x 13 cm (3.7 x 4 x 5 ins)	12 x 8 x 11.5 cm (4.7 x 3 x 4.5 ins)	12 x 8 x 11.5 cm (4.7 x 3 x 4.5 ins)	9.5 x 10.5 x 13 cm (3.7 x 4 x 5 ins)	12 x 8 x 11.5 cm (4.7 x 3 x 4.5 ins)
Weight	0.42 kg	0.42 kg	0.82 kg	0.82 kg	0.42 kg	0.82 kg

Ordering Information

Description	Item no.	Series no.	Model no.	Legacy SKU
Heating Controller 800 W 230 VAC	36223-04	CN-200	CN-200-800	MC5
Heating Controller 460 W 115 VAC	36223-05	CN-200	CN-200-460-115	MC5X1
Heating Controller 2300 W 230 VAC	36223-00	CN-200	CN-200-2300	MC227
Heating Controller 110 W 115 VAC	36223-01	CN-200	CN-200-1100-115	MC228X1
Heating Controller 1800 W 230 VAC	36223-02	CN-200	CN-200-1800	MC242
Heating Controller 1150 W 115 VAC	36223-03	CN-200	CN-200-1150-115	MC242X1

CN-200D Digital Heating Controller

CN-200D Series
Digital Heating Controllers

The CN-200D digital controller provides a convenient means of temperature control, using microprocessor techniques to give ease of operation and good accuracy. It can be used in three ways: In on/off mode with the hysteresis loop controlling power switching, As a PID (Proportional Integrated Derivative) controller, as a temperature measuring device up to 270 °C or more, depending upon the probe accessory used.

The CN-200D digital controller may be used in conjunction with a suitable heating or cooling device e.g. electromantle or electric bunsen. For clear operation, the CN-200D digital controller has an on/off power switch, “power on” amber neon indicator and an exit/standby button. Programming is done via the up/down controls on the front panel and the 3 digit LED display allows you to set a 1 °C resolution over a range of -10 °C to 800 °C. Temperature sensing is performed by a plug-in PTFE covered platinum resistance thermometer probe which is suitable for measurements up to 270 °C. There is a 5 pin DIN socket for the temperature probe. The sample temperature is displayed on the 3-digit LED display. The CN-200D digital controller has a zinc die-cast outer case, and is suitable for bench and retort stand mounting or wall mounting using the wall bracket and retort rod clamps provided. It has a short mains output lead with an IEC socket to connect it to the resistive load. An accessory extension mains lead is available where remote operation is required (e.g. in a fume extraction unit).

Specifications

Model no.	CN-200D	CN-200D-115
Electrical requirements	230V, 50/60Hz, 1500W	115V, 50/60Hz, 750W
Controller power consumption	n <2W	n <2W
Dimensions (W x H x D)	12 x 8 x 10 cm (4.7 x 3 x 3.9 ins)	12 x 8 x 10 cm (4.7 x 3 x 3.9 ins)
Weight	1.1 kg	1.1 kg
Warranty	3 years	3 years

Accessories

Description	Model no.	Item no.
Digital controller temperature probe, high-temp, 800 °C Max	AZ6705	99965-02
Digital controller temperature probe, extra-long, 250 °C Max	AZ9046	32587-99
Digital controller temperature probe with PTFE sleeving, 250 °C Max	AZ6706	99965-03
Digital controller temperature probe, 400°C Max	AZ6741	32587-98

Ordering Information

Description	Item no.	Series no.	Model no.	Legacy SKU
Digital Controller 230 VAC, 50/60 Hz, 1500 W 230 VAC	32587-00	CN-200D	CN-200D	MC810B
Digital Controller 115 VAC, 50/60 Hz, 750 W 115 VAC	32587-01	CN-200D	CN-200D-115	MC810BX1

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Ставрополь (8652)20-65-13
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