

Type K Thermocouple Probes



Cooper-Atkins builds all of our probes in our Connecticut Headquarters facility, so you can rely on us to custom design and manufacture a probe for your specific needs. Cooper-Atkins probes are manufactured in an ISO 9001-2008 facility in the United States.

Needle Probes

	31901-K	39035-K	49122-K	49135-K	50101-K	50143-K	50145-K	50207-K
Description:	1/8" Needle Probe - (Petite Handle)	1/8" Needle Probe	Ultra-Fine Product Probe	1/8" Rugged Needle Probe	Frozen Product Needle Probe	Heavy-Duty Needle Probe	1/8" Rugged Needle Probe	MicroNeedle Chisel Tip Probe (Direct Connect)
Temperature Range:	-40° to 400°F (-40° to 205°C)	-40° to 400°F (-40° to 205°C)	-100° to 500°F (-73° to 260°C)	-40° to 400°F (-40° to 205°C)	-40° to 400°F (-40° to 205°C)	-40° to 500°F (-40° to 260°C)	-40° to 500°F (-40° to 260°C)	-100° to 500°F (-73° to 260°C)
Max Tip Temperature:	400°F (205°C)	400°F (205°C)	500°F (260°C)	400°F (205°C)	400°F (205°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)
Max Cable Temperature:	400°F (205°C)	400°F (205°C)	221°F (105°C)	400°F (205°C)	400°F (205°C)	176°F (80°C)	176°F (80°C)	-
Response Time (liquid):	4 seconds	4 seconds	3 seconds	4 seconds	4 seconds	5 seconds	4 seconds	1 second
Shaft Length:	4" (102 mm)	4" (102 mm)	4" (102 mm)	4" (102 mm)	3" (76 mm)	4" (102 mm)	4" (102 mm)	3.75" (95 mm)
Cable Length Max Extended:	24" (610 mm) w/ Silicone Jacket	36" (914 mm) w/ FEP Jacket	36" (914 mm) w/ PVC Jacket	36" (914 mm) w/ FEP Jacket	30" (762 mm) w/ Flexible Armored Cable	48" (1.2 m) w/ Polyurethane Jacket	48" (1.2 m) w/ Polyurethane Jacket	Direct Connect (no cable)
Weight:	1 oz (28 g)	1 oz (28 g)	1 oz (28 g)	4 oz (113 g)	1 lb (454 g)	5 oz (142 g)	4 oz (113 g)	0.5 oz (14 g)
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year

50336-K DuraNeedle Probe



50012-K Angled Shaft Surface Bell Probe

Needle Probes

	50209-K	50210-K	50263-K	50334-K	50335-K	50336-K	50337-K	50360-K	50361-K
Description:	MicroNeedle Probe	MicroNeedle Probe (Direct Connect)	60° Patty Probe	4" DuraNeedle Probe	4.5" Needle Probe	DuraNeedle Probe	DuraNeedle Probe (Direct Connect)	Oven Needle Probe	Meat Probe
Temperature Range:	-100° to 500°F (-73° to 260°C)	-100° to 500°F (-73° to 260°C)	-100° to 500°F (-73° to 260°C)	-100° to 500°F (-73° to 260°C)	-40° to 500°F (-40° to 260°C)	-40° to 500°F (-40° to 260°C)	-100° to 500°F (-73° to 260°C)	-40° to 500°F (-40° to 260°C)	-40° to 400°F (-40° to 205°C)
Max Tip Temperature:	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	400°F (205°C)
Max Cable Temperature:	176°F (80°C)	-	176°F (80°C)	400°F (205°C)	176°F (80°C)	176°F (80°C)	-	600°F (316°C)	400°F (205°C)
Response Time (liquid):	1 second	1 second	1 second	1 second	4 seconds	2 seconds	1 second	2 seconds	4 seconds
Shaft Length:	3.5" (89 mm)	3.75" (95 mm)	8" (203 mm)	4" (102 mm)	4.5" (114 mm)	6" (153 mm)	4" (102 mm)	5.5" (140 mm)	3.875" (98 mm)
Cable Length Max Extended:	48" (1.2 m) w/ Polyurethane Jacket	Direct Connect (no cable)	48" (1.2 m) w/ Polyurethane Jacket	34" (864 mm) w/ Fluoroelastomer Jacket	48" (1.2 m) w/ Polyurethane Jacket	48" (1.2 m) w/ Polyurethane Jacket	Direct Connect (no cable)	35" (889 m) w/ Stainless Steel Overbraid	10' (3 m) w/ Flexible Armor
Weight:	2 oz (57 g)	0.5 oz (14 g)	3 oz (85 g)	2 oz (57 g)	2 oz (57 g)	2 oz (57 g)	0.5 oz (14 g)	1 oz (28 g)	6 oz (170 g)
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year



4005MK Pipe Clamp Probe

High Temperature Probes

Pipe Probes

Fry Vat Probes

	49126-K	49127-K	49140-K	50426-K	50427-K	4005MK	54011-K	50200-K	50208-K
Description:	Reduced Tip Puncture Probe	Reduced Tip Probe (Direct Connect)	High Temperature Probe	4" Reduced Tip Probe	12" Reduced Tip Probe	Pipe Clamp Surface Probe	Pipe Strap Surface Probe	High Temperature Probe	Fry Vat Insertion Probe
Temperature Range:	32° to 932°F (0° to 500°C)	32° to 932°F (0° to 500°C)	32° to 2012°F (0° to 1100°C)	32° to 932°F (0° to 500°C)	32° to 932°F (0° to 500°C)	-20° to 300°F (-29° to 149°C)	-25° to 300°F (-32° to 149°C)	-40° to 400°F (-40° to 205°C)	-40° to 400°F (-40° to 205°C)
Max Tip Temperature:	932°F (500°C)	932°F (500°C)	2012°F (1100°C)	932°F (500°C)	932°F (500°C)	300°F (149°C)	300°F (149°C)	400°F (205°C)	400°F (205°C)
Max Cable Temperature:	400°F (205°C)	-	400°F (205°C)	176°F (80°C)	176°F (80°C)	220°F (104°C)	220°F (104°C)	400°F (205°C)	400°F (205°C)
Response Time:	1 second liquid	1 second liquid	2 seconds liquid	1 second liquid	1 second liquid	2 seconds on pipe	Varies on pipe	12 seconds liquid	8 seconds liquid
Shaft Length:	4" (102 mm)	4" (102 mm)	24" (610 mm)	4" (102 mm)	12" (305 mm)	-	-	8" (203 mm)	7.3" (185 mm)
Cable Length Max Extended:	36" (914 mm) w/ FEP Jacket	Direct Connect (no cable)	36" (914 mm) w/ Flexible Armor	48" (1.2 m) w/ Polyurethane Jacket	48" (1.2 m) w/ Polyurethane Jacket	10' (3 m) w/ Polyurethane Jacket	10' (3 m) w/ Polyurethane Jacket	36" (914 mm) w/ FEP Jacket	30" (762 mm) w/ Flexible Armor
Weight:	4 oz (113 g)	.5 oz (14 g)	6 oz (170 g)	5 oz (142 g)	5 oz (142 g)	5 oz (142 g)	2 oz (57 g)	2 oz (57 g)	3 oz (85 g)
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year



54011-K Pipe Strap Probe

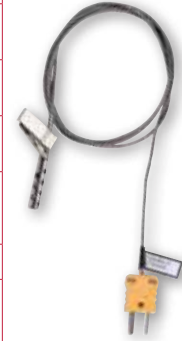
Type K Thermocouple Probes



Air Probes

	31903-K	31905-K	39032-K	49138-K	50302-K	50305-K	50306-K	50332-K	50338-K
Description:	Hand-held Air Probe	Bare Tip Air Probe	Hand-Held Air Probe	Bare Tip Air Probe	Industrial Air Probe	Freezer/Cooler Probe	Oven/Freezer Probe	Hand-Held Air Probe	Industrial Air Probe
Temperature Range:	-40° to 400°F (-40° to 205°C)	-40° to 400°F (-40° to 205°C)	-328° to 400°F (-200° to 205°C)	32° to 896°F (0° to 480°C)	32° to 896°F (0° to 480°C)	-40° to 400°F (-40° to 205°C)	-100° to 600°F (-73° to 316°C)	-100° to 500°F (-73° to 260°C)	32° to 896°F (0° to 480°C)
Max Tip Temperature:	400°F (205°C)	400°F (205°C)	400°F (205°C)	896°F (480°C)	896°F (480°C)	400°F (205°C)	600°F (316°C)	500°F (260°C)	896°F (480°C)
Max Cable Temperature:	400°F (205°C)	400°F (205°C)	400°F (205°C)	896°F (480°C)	896°F (480°C)	176°F (80°C)	600°F (316°C)	176°F (80°C)	896°F (480°C)
Response Time :	9 seconds in 5 m/sec. air	1 sec. liquid & 3 sec. 5 m/sec. air	11 seconds in 5 m/sec. air steam	1 second liquid 9 sec. 5 m/sec. air	1 second liquid 10 sec. 5 m/sec. air	25 seconds air	1 second liquid 10 sec. 5 m/sec. air	10 seconds in 5 m/sec. air	1 second liquid 9 seconds in 5 m/sec. air
Shaft Length:	4" (102 mm)	-	4" (102 mm)	-	2.125" (54 mm)	-	2.125" (54 mm)	4" (102 mm)	-
Cable Length Max Extended:	24" (610 mm) w/ Silicone Jacket	24" (610 mm) w/ Silicone Jacket	36" (914 mm) w/ FEP Cable	48" (1.2 m) w/ Fiberglass Jacket	46.5" (1.2 m) w/ Fiberglass Jacket	24" (610 mm) w/ FEP Jacket	43" (1.1 m) w/ Stainless Steel Overbraid	48" (1.2 m) w/ Polyurethane Jacket	48" (1.2 m) w/ Fiberglass Jacket
Weight:	1 oz (28 g)	1 oz (28 g)	1 oz (28 g)	1 oz (28 g)	1 oz (28 g)	3 oz (85 g)	1 oz (28 g)	2 oz (57 g)	1 oz (28 g)
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year

50306-K
Air Probe for oven or cooler/freezer with clip



Surface Probes

	31907-K	50001-K	50008-K	50010-K	50012-K	50014-K	50069-K	50316-K	50318-K	50319-K	50405-K
Description:	Surface Probe - petite handle	Right Angle Bell Surface Probe	Silkscreen Probe	Tape Surface Probe	120° Angled Shaft Surface Bell Probe	Weighted Gridle Surface Probe	Moving Surface Bow Probe	1/8" Surface/Immersion Probe - flat tip	Ceramic Tip Surface Probe	90° Ceramic Tip Surface Probe	Blunt Tip Probe
Temperature Range:	-40° to 400°F (-40° to 205°C)	-40° to 400°F (-40° to 205°C)	-40° to 400°F (-40° to 205°C)	-40° to 400°F (-40° to 205°C)	-40° to 500°F (-40° to 260°C)	-40° to 500°F (-40° to 260°C)	-40° to 500°F (-40° to 260°C)	-100° to 500°F (-73° to 260°C)	-40° to 1202°F (-40° to 650°C)	-40° to 1202°F (-40° to 650°C)	-100° to 500°F (-73° to 260°C)
Max Tip Temperature:	400°F (205°C)	400°F (205°C)	400°F (205°C)	400°F (205°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	1202°F (650°C)	1202°F (650°C)	500°F (260°C)
Max Cable Temperature:	400°F (205°C)	400°F (205°C)	400°F (205°C)	400°F (205°C)	176°F (80°C)	400°F (205°C)	221°F (105°C)	176°F (80°C)	176°F (80°C)	176°F (80°C)	-
Response Time:	5 seconds on (oiled surface)	7 seconds (oiled surface)	1 second (liquid)	9 seconds on (metal surface)	4 seconds (oiled surface)	2 seconds (oiled surface)	4 seconds (oiled surface)	6 seconds (metal surface) / 1 second (liquid)	1 second (oiled surface)	1 second (oiled surface)	6 seconds (oiled surface) / 1 second (liquid)
Shaft Length:	4" (102 mm)	9" (229 mm)	-	-	4.5" (114 mm)	-	8" (203 mm)	4" (102 mm)	4" (102 mm)	5" (127 mm)	7.5" (190 mm)
Cable Length Max Extended:	24" (610 mm) w/ Silicone Jacket	30" (762 mm) w/ Flexible Armored Cable	15" (381 mm) w/ Silicone Jacket	36" (914 mm) w/ FEP Jacket	48" (1.2 m) w/ Polyurethane Jacket	30" (762 mm) w/ Flexible Armored Cable	36" (914 mm) w/ PVC Jacket	48" (1.2 m) w/ Polyurethane Jacket	48" (1.2 m) w/ Polyurethane Jacket	48" (1.2 m) w/ Polyurethane Jacket	Direct Connect (no cable)
Weight:	1 oz (28 g)	6 oz (170 g)	3 oz (85 g)	1 oz (28 g)	5 oz (142 g)	2 lbs (907 g)	6 oz (170 g)	2 oz (57 g)	5 oz (142 g)	6 oz (170 g)	.5 oz (14 g)
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year

Miscellaneous Probes

	39138-K	49136-K	50121-K	50415-K	50701-K	52048-K
Description:	Bare-Tip Probe	Bendable Tip Probe	Racing Tire Probe	Dishwasher Probe	Combo Probe	Product Simulator
Temperature Range:	-328° to 400°F (-200° to 205°C)	32° to 1652°F (0° to 900°C)	-40° to 500°F (-40° to 260°C)	-67° to 221°F (-55° to 105°C)	-100° to 500°F (-73° to 260°C)	-40° to 180°F (-40° to 82°C)
Max Tip Temperature:	400°F (205°C)	1652°F (900°C)	500°F (260°C)	221°F (105°C)	500°F (260°C)	180°F (82°C)
Max Cable Temperature:	400°F (205°C)	221°F (105°C)	176°F (80°C)	221°F (105°C)	400°F (205°C)	-
Response Time :	1 sec. liquid & 7 sec. 5 m / sec. air	1 second liquid	1 second liquid	9 seconds in 5 m / sec. air	2 seconds liquid	Stabilization of Simulator - up to 2 hours
Shaft Length:	-	7" (178 mm)	0.1875" (5 mm)	-	35" (889 mm)	-
Cable Length Max Extended:	36" (914 mm) w/ FEP Jacket	36" (914 mm) w/ PVC Jacket	48" (1.2 m) w/ Polyurethane Jacket	15" (4.6 m) w/ PVC Jacket	36" (914 mm) w/ Fluoroelastomer Jacket	6" (152 mm) Flexible Cable w/ FEP Jacket
Weight:	1 oz (28 g)	1 oz (28 g)	4 oz (113 g)	3 oz (85 g)	15 oz (425 g)	2.5 oz (71 g)
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year

52048-K
Product Simulator Probe



49136-K
Bendable TipProbe



NOTE: Most probes are available in Type J and Type T configurations.