

TEMPERATURE PROBES

New probes added

- SURFACE PROBES
- NEEDLE PROBES
- LIQUID PROBES
- FROZEN FOOD PROBES
- AIR PROBES
- GENERAL PURPOSE PROBES

Technical data probes

Probe Type	: K type thermocouple
Accuracy	: Class I Premium grade
Handle	: ABS, 110 mm long, 90°C max.
Shaft	: Stainless steel
Cable	: 1000 mm standard. Coiled polyurethan cable for probes with a handle.
Plug	: K type miniature thermocouple plug

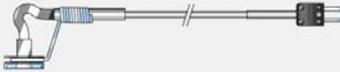
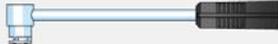
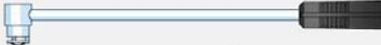
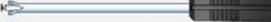
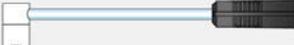
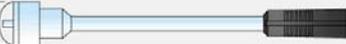
Ordering details

Model

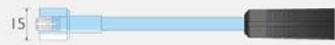
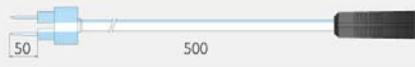
Surface probes

80100	Magnetic surface probe Measures surface temperature of ferrous materials, Ø 14 mm.
80103	Heavy duty right angle surface probe Springloaded measuring disk, shaft 130 mm.
80103A	Heavy duty right angle surface probe Springloaded measuring disk, shaft 300 mm.
80109	Pipe clamp probe Measures pipe surface temperature, Ø 35 mm max
80110	High temperature surface probe Ceramic springloaded tip, fast response spring type junction.
80110A	High temperature surface probe Right angle measuring head as 80110, shaft 130 mm.
80101	Surface probe Designed with a springloaded measuring disk. Shaft 130 mm.
80102A	Electrical insulated surface probe Prevents short circuiting by the shaft. Shaft 130 mm.
80111	PTFE right angle surface probe Band type measuring tip, shaft 130 mm.
80111A	PTFE right angle surface probe Band type measuring tip, shaft 300 mm.
80117	Heavy duty surface probe For harsh environments fast response. Shaft 130 mm.

K

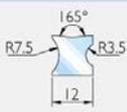
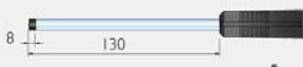
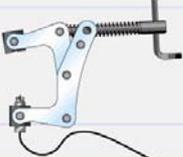
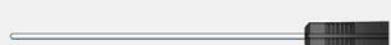
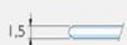
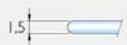
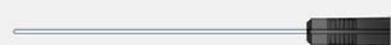
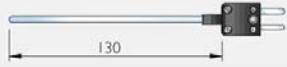
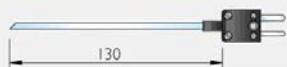
Dimensions (mm)		Response time	Max.temp. at tip
		7 sec.	220°C 428°F
		8 sec.	450°C 842°F
		8 sec.	450°C 842°F
		8 sec.	200°C 392°F
		2 sec.	900°C 1652°F
		2 sec.	900°C 1652°F
		5 sec.	450°C 842°F
		2 sec.	200°C 392°F
		4 sec.	200°C 392°F
		4 sec.	200°C 392°F
		2 sec.	450°C 842°F

Ordering details	
Model	Surface probes
80118	Block type flexible band For moving or stationary surfaces, dimensions 50 x 40 x 30 mm.
80118R	Rotating block type flexible band For moving or stationary surfaces. R min. 50 mm.
80500	Fast response springtip sensor For flat surfaces. Shaft 130 mm.
80506	Flat springblade probe 0,3 mm thick blades for surface measurement or between paper, plates etc, dimensions 40 x 8 mm.
80507	Flat Kapton insulated leaf probe Fast response flexible to curve.
80508	Hook and loop thermocouple Fastens back to back for pipe surface measurement, Ø 100 mm max.
80509	Self adhesive patch thermocouple PTFE impregnated fibreglass tape.
80511	Clamp type surface probe Fits to max. 20 mm plates etc.
80512	Rugged magnetic surface probe To suit industrial measurements, Ø 80 x 15 mm.
80513	Miniature magnetic surface probe Dimensions 5 x 5 x 2 mm Twisted pair thermocouple wire PTFE insulated.
80514	Foundry probe with solid thermocouple pins Measures hot metal surfaces or molten metal castings, shaft 500 mm.
80515	Wire mill surface probe To measure running wire in cable mill's.
80516	Universal bearing probe Sensortip adjustable 6..70mm can be placed in upper or lower jaw, springloaded. Sensor is replaceable.

		K	
Dimensions (mm)		Response time	Max.temp. at tip
		3 sec.	250°C 482°F
		1 sec.	200°C 392°F
		3 sec.	400°C 752°F
		5 sec.	400°C 752°F
		1 sec.	300°C 572°F
		5 sec.	100°C 212°F
		2 sec.	250°C 482°F
		7 sec.	200°C 392°F
		12 sec.	150°C 302°F
		2 sec.	200°C 392°F
		2 sec.	1260°C 2300°F
		2 sec.	250°C 482°F
		3 sec.	400°C 752°F

Ordering details

Model	Surface probes
80521	Surface block probe for clamp mounting Shaped to suit flat round and curved surfaces, dimensions 50 x 12 mm. Silicon cable. IP 65
80522	Miniature bandtype surface probe For electronic parts IC's, transistors etc.
80530	Sturdy surface probe Fast response spring type junction, embedded in silicon.
80531	Clamp surface probe Fits any surface, jaws adjustable, 50 mm max. Fixation with a crank.
Model	General purpose probes
80104	Bendable probe For gas, liquids, open fire etc. Shaft 130 mm.
80104A	Bendable probe For gas, liquids, open fire etc. Shaft 300 mm.
80105	Bendable probe, fast response For gas, liquids, open fire etc. Shaft 130 mm.
80105A	Bendable probe, fast response For gas, liquids, open fire etc. Shaft 300 mm.
80114	Bendable probe Mini plug termination. Insulated hot junction.
80115	Bendable probe Sharp tip mini plug termination. Insulated hot junction.

K			
Dimensions (mm)		Response time	Max.temp. at tip
		20 sec.	200°C 392°F
		3 sec.	250°C 482°F
		2 sec.	300°C 572°F
		3 sec.	300°C 572°F
Dimensions (mm)		Response time	Max. temp.
		12 sec.	1100°C 2012°F
		12 sec.	1100°C 2012°F
		6 sec.	900°C 1652°F
		6 sec.	900°C 1652°F
		12 sec.	600°C 1112°F
		12 sec.	600°C 1112°F

Ordering details

Model Needle probes

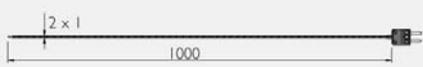
80106	Heavy duty penetration probe Sharp tip for easy penetration into semi solids like rubber, soil, plastic, fruit etc. Shaft 130 x 3 mm.
80107	Penetration probe Fast response sharp tip for easy penetration into semi solids like rubber, soil, plastic, fruit etc. Shaft 130 x 1,5 mm.
80119	Frozen food probe -180°C and up. To screw in to product. Detachable cable.
80504	Hypodermic needle probe With direct cable, stiff insertion into hard semi solids.
80505	Hypodermic needle probe Stiff insertion into hard semi solids
80525	Tyre probe With stiff penetration shaft to measure the tyre temperature at races etc.

Model Air probes

80108	Air temperature probe Fast response for use in air or gas flows. Shaft 130 mm.
80116	Air temperature probe Mini plug termination exposed hot junction.
80510	Clamp type air probe Fits to max. 20 mm.

Model Wire probes

80120	Wire probe Glasfibre insulated, exposed junction.
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			K
Dimensions (mm)		Response time	Max.temp. at tip
		12 sec.	600°C 1112°F
		6 sec.	600°C 1112°F
		18 sec.	200°C 392°F
		3 sec.	200°C 392°F
		3 sec.	200°C 392°F
		3 sec.	200°C 392°F
Dimensions (mm)		Response time	Max.temp. at tip
		2 sec.	600°C 1112°F
		2 sec.	600°C 1112°F
		2 sec.	200°C 392°F
Dimensions (mm)		Response time	Max.temp. at tip
		1 sec.	480°C 896°F

Ordering details

Model

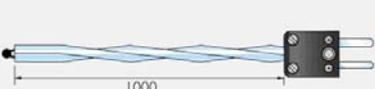
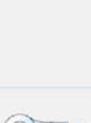
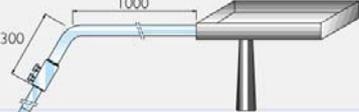
Wire probes

80121	High temperature wire probe Ceramic fibre insulated, exposed hot junction. Each wire 0,8 mm.
80501	Twisted wire probe Each wire 0,2 mm, PTFE insulated. Exposed hot junction.
80502	Wire probe Insulated hot junction, PTFE jacket. Flexible to use.
80503	Caddy plug wire probe PTFE insulated wire with exposed hot junction.

Model

Custom measurement sensors

80517	Chemical resistant tank probe. Stainless steel weight for straight down insertion in liquids. Length 10 meter PTFE insulated cable.
80518	Non ferrous foundry probe Holder incl. dip element, universal instrument area, dimensions 175 x 75 mm.
80524	Bolt-on washer type sensor 8 mm hole in nickel plated brass ring.
80526	PFA coated probe For caustic and corrosive chemical liquids. Bendable shaft 300 mm.
80540	Black body probe Absorbs and measures all radiation incidents upon it, supplied incl. support.
80570	Solder iron probe To measure soldering iron tips.

			K
Dimensions (mm)		Response time	Max.temp. at tip
		1 sec.	1430°C 2606°F
		1 sec.	250°C 482°F
		1 sec.	250°C 482°F
		1 sec.	250°C 482°F
Dimensions (mm)		Response time	Max.temp. at tip
		12 sec.	250°C 482°F
		30 sec.	1260°C 2300°F
		15 sec.	200°C 392°F
		12 sec.	220°C 428°F
			250°C 482°F
		2 sec.	500°C 932°F

Ordering details

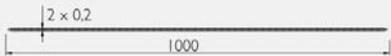
Model	Accessories
80122	Thermocouple wire 2 x 0,2 mm. each wire and overall jacket teflon FEP
80516A	Spare sensor for 80516
80518A	Spare dip element for 80518
80520	Thermocouple extension cable Length 10 meter for use with all miniplug type K probes (other length available) max. 85°C.
80550	Adaptor plug mini female/ large (round pin)male
80551	Adaptor plug mini male/ large (round pin)female
80560	Thermal attachment pads Attaching small diameter thermocouples e.g. exposed hot junction wire probes e.g. 80122

Technical data probes

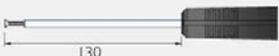
Probe Type	: Pt100 resistance element 3 wire system
Accuracy	: according to IEC 751 class B
Handle	: ABS, 110 mm long, 90°C max.
Cable	: 1000mm standard. Coiled polyurethan cable for probes with a handle.
All Pt100 probes come with stripped ends, connector optional	

Model Surface probes

82109	Every angle surface probe Flexible tip for surface measurement.
82509	Self adhesive bendable Pt 100 sensor Silicon patch size 35 x 13 x 2 mm fast response by use of aluminium contact foil. PTFE wires length 4 meter. Good chemical resistance.

			K
Dimensions (mm)	Response time	Max.temp. at tip	
 		215°C 419°F	
	3 sec.	400°C 752°F	
	30 sec.	1260°C 2300°F	
		85°C	
			
		250°C 482°F	

Pt 100

Dimensions (mm)	Response time	Max.temp. at tip	
 	4 sec.	300°C 572°F	
 	2 sec.	250°C 482°F	

Ordering details

Model

Surface probes

82521

Surface block probe for clamp mounting
Shaped to suit flat round and curved surfaces.
Dimensions 50 x 12 mm. Silicon cable. IP 65

Model

General purpose probes

82104

Bendable probe
For gas, liquids, open fire etc. Shaft 130 mm.

82525

Close-end tube probe
Dim. 50 x 6 mm, PTFE insulated wires 1000 mm.

Model

Needle probes

82106

Heavy duty penetration probe
Sharp tip for easy penetration into semi solids like rubber, soil, plastic, fruit etc. Shaft 130 mm.

Model

Air probes

82108

Air temperature probe
Fast response for use in air or gas flows.

Model

Custom measurement sensor

82526

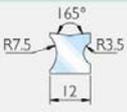
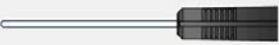
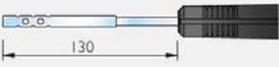
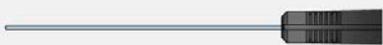
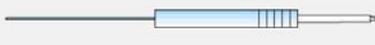
PFA coated probe
For caustic and corrosive chemical liquids, bendable shaft 300 mm.

82527

Laboratory probe
Length 200 mm Ø 0,5 mm, PTFE insulated cable.

82524

Bolt-on type sensor
Stainless steel mounting plate.
Dim. 23 x 10 with twisted wire, length 1000 mm.

		Pt 100	
Dimensions (mm)		Response time	Max.temp. at tip
		20 sec.	200°C 392°F
Dimensions (mm)		Response time	Max.temp. at tip
		7 sec.	600°C 1112°F
		7 sec.	200°C 392°F
Dimensions (mm)		Response time	Max.temp. at tip
		7 sec.	600°C 1112°F
Dimensions (mm)		Response time	Max.temp. at tip
		5 sec.	600°C 1112°F
Dimensions (mm)		Response time	Max.temp. at tip
		12 sec.	220°C 428°F
		4 sec.	240°C 464°F
		15 sec.	200°C 392°F




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heavy duty hand held type K thermometer probes

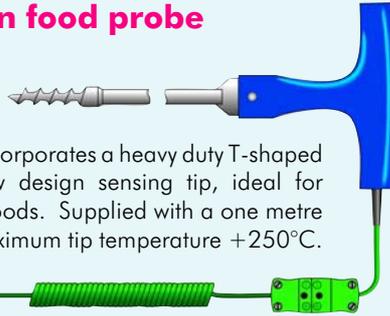
T-shaped handle or heavy duty ribbed handle with colour-coded caps



This range of heavy duty hand held probes is supplied with a heavy duty ribbed or T-shaped handle, a one metre straight PVC lead and a miniature connector. If you require a one metre coiled PVC lead, replace the first digit (1) of the order code with the number 3.

corkscrew frozen food probe

Ø8 x 100mm

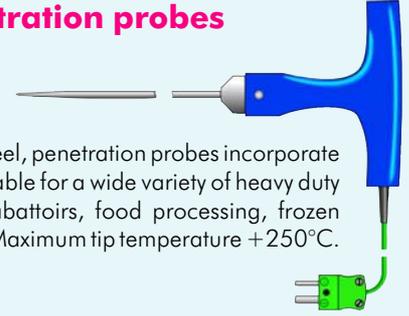


This frozen food probe incorporates a heavy duty T-shaped handle and a corkscrew design sensing tip, ideal for measuring deep frozen foods. Supplied with a one metre PU detachable lead. Maximum tip temperature +250°C.

order code	description
333-175	corkscrew frozen food probe

T-shaped penetration probes

Ø3.3 or 4 x 100mm

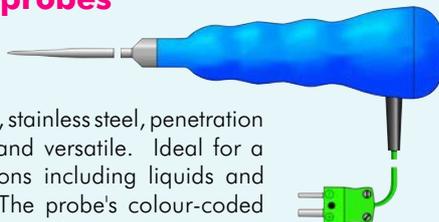


These robust, stainless steel, penetration probes incorporate a T-shaped handle. Suitable for a wide variety of heavy duty applications including abattoirs, food processing, frozen and refrigerated foods. Maximum tip temperature +250°C.

order code	description
133-123	heavy duty probe Ø3.3mm
133-124	heavy duty probe Ø4mm

penetration probes

Ø3.3 x 130mm

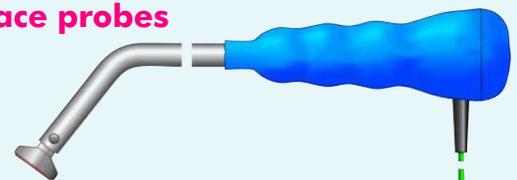


These colour-coded, stainless steel, penetration probes are strong and versatile. Ideal for a variety of applications including liquids and semi-solid foods. The probe's colour-coded cap assists users to identify a particular probe for a specific application. Maximum tip temperature +250°C.

order code	description
143-162	penetration probe - blue cap
143-163	penetration probe - brown cap
143-164	penetration probe - green cap
143-165	penetration probe - red cap
143-166	penetration probe - white cap
143-167	penetration probe - yellow cap

bell surface probes

Ø19 x 130mm



These fast response surface probes have a bell-shaped housing with a thin, flat, stainless steel measuring disc, ideal for measuring surface temperatures. The probes are available in three designs, straight, right-angled (90°) or with a 45° angled head. The 143-088 is supplied with a one metre armoured lead. Maximum tip temperature +250°C.

order code	description
143-080	bell surface probe - straight
143-084	bell surface probe - 45° angle
143-086	bell surface probe - 90° angle
143-088	bell surface probe - 90° angle

fast response probes

exposed junction wire thermocouples

These fast response, general purpose, exposed junction thermocouple wire probes are small in size and of a low mass. They are suitable for a wide variety of applications. When used in conjunction with the self-adhesive attachment pads, these thermocouples provide a quick and easy solution to the measurement of surface or air temperatures.

exposed junction wire probes



These PTFE insulated exposed junction wire probes are suitable for measuring the air temperature inside fridges and freezers. Maximum wire temperature +250°C.

order code	description
133-362	1000mm exposed junction wire probe
133-363	2000mm exposed junction wire probe
133-365	3000mm exposed junction wire probe

exposed junction wire probes



These fibreglass exposed junction wire probes are ideal for measuring the temperature of ovens, hot cupboards etc. Maximum wire temperature +350°C.

order code	description
133-382	1000mm exposed junction wire probe
133-383	2000mm exposed junction wire probe
133-385	3000mm exposed junction wire probe

heavy duty wire probes



These heavy duty PTFE insulated exposed junction wire probes are suitable for measuring the air temperature inside fridges and freezers. Maximum wire temperature +250°C.

order code	description
133-372	1000mm heavy duty wire probe
133-373	2000mm heavy duty wire probe
133-375	3000mm heavy duty wire probe

self-adhesive attachment pads

Thermocouple attachment pads are recommended for attaching small diameter exposed junction wire thermocouples to surfaces, i.e. hotplates, pipes etc. These easy to use PTFE pads operate in the range of -50 to +200°C.



order code	description
600-485	pack of 25 attachment pads



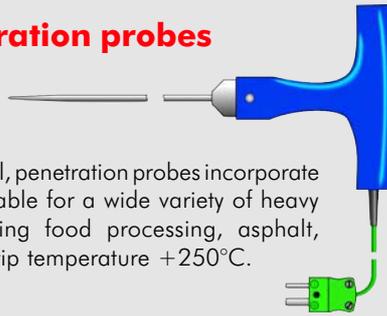
heavy duty hand held type K thermometer probes

T-shaped handle or heavy duty ribbed handle with colour-coded caps



This range of heavy duty hand held probes is supplied with a heavy duty ribbed or T-shaped handle, a one metre straight PVC lead and a miniature connector. If you require a one metre coiled PU lead, replace the first digit (1) of the order code with the number 3.

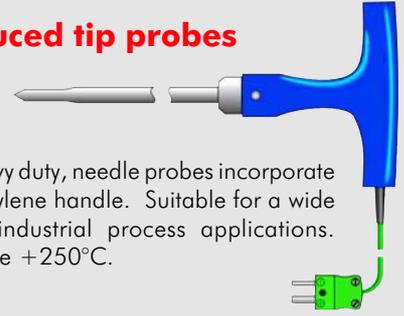
T-shaped penetration probes



These robust, stainless steel, penetration probes incorporate a T-shaped handle. Suitable for a wide variety of heavy duty applications including food processing, asphalt, blacktop etc. Maximum tip temperature +250°C.

order code	description
133-123	Ø3.3mm heavy duty probe
133-124	Ø4mm heavy duty probe
133-126	Ø6.35/4.8mm heavy duty probe
333-175	Ø8mm corkscrew probe

heavy duty reduced tip probes

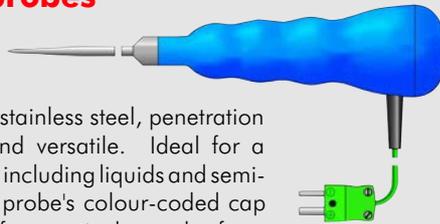


These stainless steel, heavy duty, needle probes incorporate a T-shaped blue polyethylene handle. Suitable for a wide variety of heavy duty industrial process applications. Maximum tip temperature +250°C.

order code	description
133-120	Ø6.35 x 300mm h/d needle probe
133-130	Ø8 x 500mm h/d needle probe
133-135	Ø9.5 x 1400mm h/d needle probe
133-133	Ø9.5 x 2000mm h/d needle probe

penetration probes

Ø3.3 x 130mm

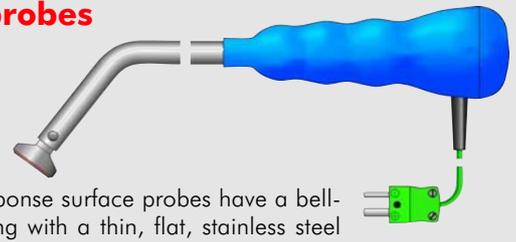


These colour-coded, stainless steel, penetration probes are strong and versatile. Ideal for a variety of applications including liquids and semi-solid materials. The probe's colour-coded cap assists users to identify a particular probe for a specific application. Maximum tip temperature +250°C.

order code	description
143-162	penetration probe - blue cap
143-163	penetration probe - brown cap
143-164	penetration probe - green cap
143-165	penetration probe - red cap
143-166	penetration probe - white cap
143-167	penetration probe - yellow cap

surface probes

Ø19 x 130mm



These fast response surface probes have a bell-shaped housing with a thin, flat, stainless steel measuring disc, ideal for measuring surface temperatures. The probes are available in three designs, straight, right-angled (90°) or with a 45° angled head. The 143-088 is supplied with a one metre armoured lead. Maximum tip temperature +250°C.

order code	description
143-080	bell surface probe - straight
143-084	bell surface probe - 45° angle
143-086	bell surface probe - 90° angle
143-088	bell surface probe - 90° angle

HVAC type K thermometer probes

ideal for measuring the temperature of pipework, radiators & ovens

This range of HVAC probes is supplied with a one/two metre straight PVC, PTFE or stainless steel, braided lead and miniature connector.

velcro pipe probe



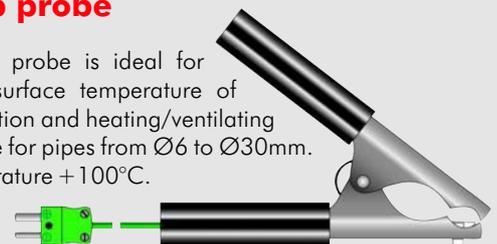
20 x 500mm

This 500mm long velcro pipe probe is a wrap-around probe suitable for medium and large pipe temperature measurement in HVAC industries. Maximum tip temperature +100°C.

order code	description
133-080	velcro pipe probe

pipe clamp probe

The pipe clamp probe is ideal for measuring the surface temperature of pipes in refrigeration and heating/ventilating systems. Suitable for pipes from Ø6 to Ø30mm. Maximum temperature +100°C.



order code	description
133-040	pipe clamp probe

magnet surface probe



Ø20mm

This easy to use magnet probe is supplied with a one metre PTFE lead. Ideal for monitoring the surface temperature of ferrous metals, e.g. radiators. Maximum tip temperature +150°C.

order code	description
133-016	magnet surface probe

black ball radiation probe

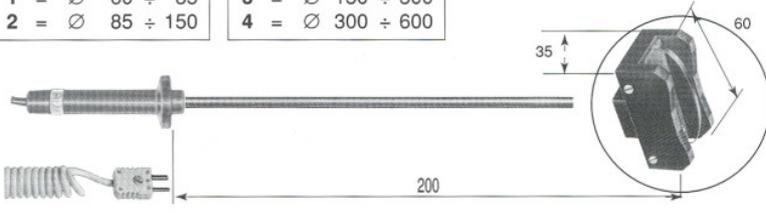
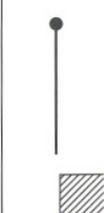
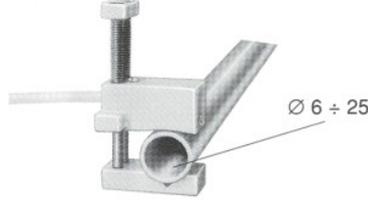
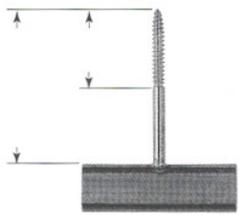
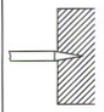
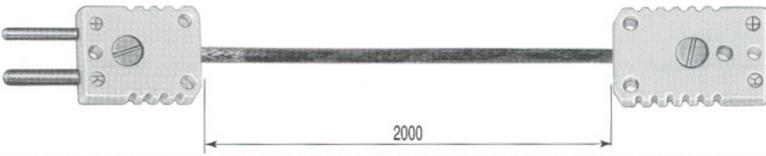


Ø50mm

The black ball probe is designed to measure the radiation temperatures in kilns and ovens. Supplied with a two metre stainless steel braided lead. Maximum ball temperature +200°C.

order code	description
133-475	black ball radiation probe

SONDE SENSORE TERMOCOPPIA TIPO "K" (CHROMEL-ALUMEL) - THERMOCOUPLE K TYPE PROBES (CHROMEL-ALUMEL)
 SONDES A THERMOCOUPLE TYPE K (CHROMEL-ALUMEL) - THERMOAARFÜHLER TYP K (CHROMEL-ALUMEL) - SONDAS TERMOPARES TIPO K (CHROMEL-ALUMEL)

COD.	°C max.	τ** sec.	DIMENSIONI	DIMENSIONS	DIMENSIONS	ABMESSUNGEN	DIMENSIONES	IMPIEGO USE UTILISATION GEBRAUCH EMPLEO			
TP 774	250	2"	<p>1 = ∅ 60 ÷ 85 2 = ∅ 85 ÷ 150</p> <p>3 = ∅ 150 ÷ 300 4 = ∅ 300 ÷ 600</p> 								
TP 655	180	2"									
TP 661	-60 +50	30"							HD 8802 HD 8704 HD 9016 HD 9218 DO 9416		
TP 909											
KCAL TEST			<p>Simula 8 valori fissi della scala della termocoppia K da -100°C a +800°C. Completo di batteria al litio. Indicato per gli strumenti con ingresso a termocoppia K, connettore mignon.</p> <p>Simulates 8 fixed values of the K type thermocouple range from -100°C to +800°C. Complete with a lithium battery. Suitable for the instruments with K thermocouple input, mini connector.</p> 								
CM	"K"										
CS	"K"										
PW	"K"										
<p>* A temperature sopra i 400°C evitare urti violenti o shock termici, si può danneggiare irrimediabilmente il sensore. At temperatures above 400°C avoid hard knocks or thermal shocks which could cause irremediable damages. À température supérieure aux 400°C éviter les coups violents et les chocs thermiques qui pourraient abîmer irrémédiablement le capteur. Vermeide man heftige stöße, besonders bei Temperaturen über 400°C, oder Temperaturschocks um die Fühler nicht wiedergutzumachender Weise beschädigen können. Cuando las temperaturas son mayores que 400°C evitar golpes fuertes y los cambios bruscos de temperatura qui pueden ocasionar danos irremediables el la sonda.</p>			<p>Time constant at 63% of final temperature variation. Response time is referred: For immersion probes at 100°C For surface probes with metallic surface at 200°C For air probe at air temperature of 100°C</p>			<p>Constante du temps au 63% de la variation de la température finale. Le temps de réponse: Pour sondes à immersion à 100°C Pour sondes à surface avec une surface métallique à 200°C Sondes à air à une température de l'air de 100°C</p>			<p>Zeitkonstante von 63% des Temperatursprungs. Ansprechzeit: Für Eintauchfühler 100°C Für Kontakfühler beim Kontakt mit metallischen Oberflächen bei 200°C Für Luftfühler bei 100°C Lufttemperatur</p>		
<p>** Costante di tempo per rispondere al 63% della variazione di temperatura finale. I tempi di risposta sono riferiti: Per le sonde ad immersione in acqua a 100°C Per le sonde a contatto al contatto di una superficie metallica a 200°C Per le sonde in aria alla temperatura dell'aria a 100°C</p>			<p>Constante de tiempo al 63% de la variación de la temperatura final. Tiempo de respuesta: Para sondas de inmersión a 100°C Para sondas de superficie con superficie metálica a 200°C Para sondas de aire a una temperatura del aire de 100°C</p>								