THERMOCOUPLE, PT100 & THERMISTOR PROBES

Thermometers are only part of the system; of equal importance is the design of the temperature probes used to physically measure the item. ETI manufacture an extensive range of probes to compliment our range of instrumentation.

RESPONSE TIMES

The response time is the time taken for the sensor to reach 66.6 % of the final reading and is the industry standard means of measuring probe response times. Five times the quoted response time is the figure normally required to obtain 100 % of the reading. Response times are dependent upon the substance being measured and in the case of liquid or gas, upon the degree of agitation. It is therefore difficult to quote an accurate response time without knowledge of the application. The results given in this catalogue were obtained in a stirred oil bath and may differ from those obtained under other conditions but can be used as a general guide when selecting probes.

HANDLE TYPES

Where appropriate, each probe is supplied with a hexagonal, small rounded, ribbed heavy duty or T-shaped handle. To reduce bacterial growth, probe handles contain Biomaster Antimicrobial Technology.



TEMPERATURE PROBES

HEXAGONAL

Manufactured from nylon and available in black. Maximum temperature is 105 °C.

SMALL ROUNDED

Manufactured from nylon and available in black. Maximum temperature is 105 °C.

PROBE ACCURACY SPECIFICATIONS

K Thermocouple Probes/Sensors

All type K thermocouple probes/sensors are manufactured from Class 1 type K thermocouple wire as detailed in the British Standard BS EN 60584-1:2013, and meet the following accuracy specification:

- ±1.5 °C between -40 & 375 °C
- ±0.4 % between 375 & 1000 °C

T Thermocouple Probes/Sensors

All type T thermocouple probes/sensors are manufactured from Class 1 type T thermocouple wire as detailed in the British Standard BS EN 60584-1:2013, and meet the following accuracy specification:

- ±0.5 °C between -40 & 125 °C
- ±0.4 % between 125 & 400 °C

NTC Thermistor Probes/Sensors

The tolerance specification for all ETI manufactured thermistor probes is as follows:

- ±0.4 °C between -20 & 100 °C
- ±0.2 °C between 0 & 70 °C
- ±0.3 °C between -10 & 0 °C



T-SHAPED

Manufactured from polypropylene and available in black or white. Maximum temperature is 105 °C.



RIBBED HEAVY DUTY

Manufactured from polypropylene and available in black or white. Maximum temperature is 85 °C. Available with colour-coded caps.

High Accuracy K Thermocouple Probes/Sensors (indicated in the catalogue with the Active icon) ETI high accuracy type K probes are manufactured from Class 1 type K thermocouple wire which is chosen for improved accuracy and performance and meet the following accuracy specification:

• ±0.5 °C between 0 & 100 °C

High Accuracy T Thermocouple Probes/Sensors (indicated in the catalogue with the Activity icon)

ETI high accuracy type T probes are manufactured from Class 1 type T thermocouple wire which is chosen for improved accuracy and performance and meet the following accuracy specification:

• ±0.2 °C between -20 & 70 °C

PT100/RTD Probes/Sensors

All PT100/RTD probes/sensors are manufactured from Class A PT100/RTD 100 Ω (ohmns) detectors as detailed in the IEC 60751 (2008) standard, and meet the following accuracy specification:

• ±0.15 °C ±0.2 % between -200 & 600 °C

HAND HELD TYPE K OR T THERMOCOUPLE PROBES

		Order code £ eac	ch
PENETRATION PROBE	This stainless steel penetration probe is strong, versatile and ideal for measuring liquids and	123-160	
	semi-solids.	323-160 (coiled lead)	
Ø3.3 x 130 mm	 Response time less than 2 seconds Probe temperature range -75 to 250 °C 		
PENETRATION PROBE	This extended, stainless steel penetration probe is strong, versatile and ideal for measuring	123-168	
	liquids and semi-solids.	323-168 (coiled lead)	
Ø3.3 x 300 mm	 Response time less than 2 seconds Probe temperature range -75 to 250 °C 		
FAST RESPONSE PROBE	This reduced tip (Ø1.8 x 25 mm), fast response, stainless steel penetration probe is ideal for	123-159	
	liquids or semi-solids i.e. soft rubber and other similar materials.	323-159 (coiled lead)	
Ø3.3 x 100 mm	 Response time less than 2 seconds Probe temperature range -75 to 250 °C 		
NEEDLE PENETRATION PROBE	This fast response, stainless steel needle	123-100	
	penetration probe is ideal for liquids or semi-solids i.e. soft rubber or plastic.	323-100 (coiled lead)	
	 Response time less than 1 second Probe temperature range -75 to 250 °C 		
OVEN PROBE	This oven probe has a stainless steel handle and a two metre PTFE high temperature lead.	133-170	
	An oven probe without a handle is available.	133-173 (no handle)	
Ø3.3 x 130 mm	 Response time less than 2 seconds Probe temperature range -75 to 250 °C 		
RIGID BETWEEN PACK PROBE	This rigid, stainless steel between pack probe is strong and versatile, designed specifically to	123-060	
	measure between packets or boxes of produce.	323-060 (coiled lead)	
Ø4.5 x 130 mm	 Response time less than 2 seconds Probe temperature range -75 to 250 °C 		
HIGH TEMPERATURE PROBE	This flexible, mineral insulated (MI) probe can be bent to any shape without affecting	123-204	
	its performance. Ideal for measuring high temperatures i.e. fryers or furnaces.	323-204 (coiled lead)	
Ø1.5 x 130 mm	 Response time less than 2 seconds Probe temperature range -200 to 1100 °C 		
HIGH TEMPERATURE PROBE	This flexible, mineral insulated (MI) probe	123-212	
	can be bent to any shape without affecting its performance. Ideal for measuring high	323-212	
	temperatures i.e. fryers or furnaces.	(coiled lead)	
Ø3 x 130 mm	 Response time less than 3 seconds Probe temperature range -200 to 1100 °C 		
HIGH TEMPERATURE PROBE	This extended, flexible, mineral insulated (MI) probe can be bent to any shape without	123-213	
	affecting its performance. Ideal for measuring high temperatures i.e. fryers or furnaces.	323-213 (coiled lead)	
Ø3 x 300 mm	 Response time less than 4 seconds Probe temperature range -200 to 1100 °C 		
23 × 300 11111	 Frobe temperature range -200 to 1100 -C 		

Please note: for hand held type T thermocouple probes, replace the third digit (3) of the order code with the number 7

HAND HELD TYPE K OR T THERMOCOUPLE PROBES

		Order code	£ each
BINDER PROBE	This rounded tip, stainless steel probe is	123-240	
	designed for inserting into Binder self-sealing glands to measure the temperature of vessels or radiators.	323-240 (coiled lead)	
Ø3 x 130 mm	 Response time less than 3 seconds Probe temperature range -75 to 250 °C 		
AIR OR GAS PROBE	This stainless steel, fast response air or gas probe is ideal for measuring air temperature in chill cabinets, fridges, freezers, offices, storage areas and similar.	123-300 323-300 (coiled lead)	
Ø4.5 x 130 mm	 Response time less than 1 second Probe temperature range -75 to 250 °C 		
RIBBON SURFACE PROBE	 This precision, ribbon surface probe utilises flat ribbon technology that ensures a fast, accurate response with minimal heat loss. A right-angled version is also available. Response time less than 1 second Probe temperature range -75 to 250 °C 	123-030 123-032 (right-angled)	
RIBBON SURFACE PROBE	This precision, ribbon surface probe utilises flat ribbon technology that ensures a fast, accurate response with minimal heat loss. A right-angled version is also available. • Response time less than 1 second • Probe temperature range -75 to 250 °C	123-044 123-052 (right-angled)	
WATERPROOF SURFACE PROBE	This waterproof, ribbon surface probe incorporates a moulded mini plug and utilises flat ribbon technology to ensure a fast, accurate response with minimal heat loss. • Response time less than 1 second • Probe temperature range -75 to 250 °C	123-046 323-046 (coiled lead)	
SURFACE PROBE	 This surface probe incorporates a spring-loaded copper disc sensing tip. The probe is ideal for a variety of surface temperature measurements. Response time less than 1 second Probe temperature range -100 to 600 °C 	123-000 323-000 (coiled lead)	
HEAVY DUTY SURFACE PROBE	 This high temperature surface probe is ideal for measuring the temperature of griddles, hotplates etc. A right-angled version is also available. Response time less than 1 second Probe temperature range -100 to 1000 °C 	123-020* 123-028* (right-angled)	
	This small handled, stainless steel penetration probe is strong, versatile and ideal for measuring liquids and semi-solids. A fast response version with a reduced tip is also available.	123-162 123-158 (reduced tip)	
	 Response time less than 2 seconds Probe temperature range -75 to 250 °C 		

Please note: for hand held type T thermocouple probes, replace the third digit (3) of the order code with the number 7. *Order codes 123-020 & 123-028 are not available in type T thermocouple

WATERPROOF TYPE K THERMOCOUPLE PROBES

		Order code	£ each
PENETRATION PROBE	This stainless steel, waterproof penetration probe is strong, versatile and incorporates a heavy duty handle with a colour-coded end cap. Suitable for liquids and semi-solids. • Response time less than 3 seconds • Probe temperature range -75 to 250 °C	143-161 143-162 143-164 143-165 143-166 143-167	
REDUCED TIP PROBE	 This extended, waterproof, stainless steel probe incorporates a reduced tip (Ø4.5 x 25 mm) and heavy duty ribbed handle, ideal for heavy duty applications including food processing, asphalt and other similar materials. Response time less than 7 seconds Probe temperature range -75 to 250 °C 	143-120	
BELL SURFACE PROBE	These fast response, waterproof heavy duty surface probes utilise a bell-shaped housing with a thin, flat, stainless steel measuring disc that ensures a fast, accurate response. Ideal for measuring a variety of surface temperatures. • Response time less than 3 seconds • Probe temperature range -75 to 200 °C	143-080 (straight) 143-084 (45° angle) 143-086 (90° angle)	

Please note: the above type K thermocouple probes are supplied with a moulded thermocouple connector and are waterproof to IP67 when connected to an instrument

PLUG-MOUNTED TYPE K THERMOCOUPLE PROBES

		Order code	£ each
INTERCHANGEABLE PROBE HANDLE	This probe handle incorporates a miniature thermocouple socket, to be used in conjunction with our range of plug-mounted probes. Supplied with a one metre coiled PU lead and miniature plug.	323-950	
PENETRATION PROBE Image: Comparison of the second	 This stainless steel, penetration probe is strong, versatile and ideal for liquids or semi-solids. A fast response version with reduced tip (Ø1.8 x 25 mm) is also available. Response time less than 2 seconds Probe temperature range -75 to 250 °C 	133-161 133-153 (reduced tip)	
AIR OR GAS PROBE	 This probe has a perforated stainless steel tip for fast response. Ideal for chill cabinets, fridges, freezers and HVAC units. Response time less than 2 seconds Probe temperature range -75 to 250 °C 	133-301	
SURFACE PROBE	 This stainless steel surface probe uses flat ribbon technology ensuring a fast, accurate response with minimal heat loss. A right-angled version is also available. Response time less than 1 second Probe temperature range -75 to 250 °C 	133-045 133-046 (right-angled)	

Please note: for hand held type T thermocouple probes, replace the third digit (3) of the order code with the number 7

HEAVY DUTY TYPE K OR T THERMOCOUPLE PROBES

		Order code	£ each
PENETRATION PROBE	 This robust, stainless steel penetration probe incorporates a T-shaped polypropylene handle and is ideal for a variety of heavy duty applications including food processing and other similar industries. Response time less than 3 seconds Probe temperature range -75 to 250 °C 	133-124	
REDUCED TIP PROBE	This robust, stainless steel, reinforced probe incorporates a T-shaped polypropylene handle and a reduced sensing tip (Ø4.5 x 25 mm) for faster response. Ideal for a variety of heavy duty applications including food processing etc. • Response time less than 9 seconds • Probe temperature range -75 to 250 °C	133-126	
REDUCED TIP PROBE	This extended robust, stainless steel, reinforced probe incorporates a T-shaped polypropylene handle and a reduced sensing tip (Ø4.5 x 25 mm) for faster response. Ideal for a variety of heavy duty applications including food processing etc. • Response time less than 9 seconds • Probe temperature range -75 to 250 °C	133-120	
REDUCED TIP PROBE	This extended robust, stainless steel, reinforced probe incorporates a T-shaped polypropylene handle and a reduced sensing tip (Ø6.35 x 25 mm) for faster response. Ideal for a variety of heavy duty applications including food processing etc. • Response time less than 20 seconds • Probe temperature range -75 to 250 °C	133-130	
REDUCED TIP PROBE	This Ø9.5 mm stainless steel, reinforced probe incorporates a T-shaped polypropylene handle and a reduced sensing tip (Ø6.35 x 25 mm) for faster response. Ideal for applications where a longer probe is required, i.e. grain silos. • Response time less than 20 seconds • Probe temperature range -75 to 250 °C	133-136 (1000 mm) 133-135 (1400 mm)	
Ø9.5 x 2000 mm	This extended stainless steel, reinforced probe incorporates a T-shaped polypropylene handle and a reduced sensing tip (Ø6.35 x 25 mm) for faster response. Ideal for applications where a very long probe is required, i.e. grain silos. • Response time less than 20 seconds • Probe temperature range -75 to 250 °C	133-133	
CORKSCREW PROBE	This stainless steel probe incorporates a heavy duty T-shaped polypropylene handle and a corkscrew design sensing tip. Ideal for industrial and food processing applications. Supplied with a one metre PU detachable lead. • Response time less than 9 seconds • Probe temperature range -75 to 250 °C	133-175	

Please note: for hand held type T thermocouple probes, replace the third digit (3) of the order code with the number 7

FAST RESPONSE K OR T THERMOCOUPLE WIRE PROBES

		Order code	£ each
PTFE WIRE PROBE Image: Constraint of the second	 This PTFE insulated, exposed junction wire probe is suitable for measuring the air temperature in fridges, freezers, ovens etc. Extended probe lengths over two metres are available upon request. Response time less than 1 second Probe temperature range -75 to 250 °C 	133-362 (1000 mm) 133-363 (2000 mm)	
HEAVY DUTY PTFE WIRE PROBE	 This heavy duty, PTFE insulated wire probe is ideal for measuring the air temperature in fridges, freezers, ovens etc. Extended probe lengths over two metres are available upon request. Response time less than 1 second Probe temperature range -75 to 250 °C 	133-372 (1000 mm) 133-373 (2000 mm)	
FIBREGLASS WIRE PROBE	 This fibreglass, exposed junction wire probe is ideal for measuring the air temperature of ovens, hot cupboards and similar appliances. Extended probe lengths over two metres are available upon request. Response time less than 1 second Probe temperature range -60 to 350 °C 	133-382 (1000 mm) 133-383 (2000 mm)	
HIGH TEMPERATURE WIRE PROBE	 This high temperature, fibreglass wire probe is insulated with a stainless steel braid and is ideal for ovens, hot cupboards and similar appliances. Supplied with a one or two metre stainless steel braided lead. Response time less than 1 second Probe temperature range -60 to 600 °C 	133-387 (1000 mm) 133-389 (2000 mm)	
ATTACHMENT PADS	These easy to use attachment pads are recommended for attaching small diameter wire thermocouples to surfaces. Supplied in packs of 25. • For use over the range of -50 to 200 °C	600-485	
PROBE EXTENSION LEAD - STRAIGHT	This probe extension lead enables the user to connect to any ETI thermocouple type K probe, extending reach up to an additional 1000 or 2000 mm. Supplied with a PVC straight lead with MPK to MSK.	627-732 (1000 mm) 627-733 (2000 mm)	
PROBE EXTENSION LEAD - COILED	This probe extension lead enables the user to connect to any ETI thermocouple type K probe, extending reach up to an additional 1000 or 2000 mm. Supplied with a PU coiled lead with MPK to MSK.	627-740 (1000 mm) 627-741 (2000 mm)	
MINIATURE PLUG OR SOCKET	Miniature thermocouple plugs and sockets are a must for accurate readings when joining probe cables. The flat pins (plug) and socket are manufactured from compatible thermocouple material and can accommodate wires up to Ø0.5 mm	625-217 (plug) 421-501 (socket)	

Please note: for type T thermocouple wire probes, replace the third digit (3) of the order code with the number 7

SPECIALIST TYPE K OR T THERMOCOUPLE PROBES

		Order code	£ each
MINIATURE PROBE	This miniature, stainless steel needle probe is supplied with a one or two metre PTFE lead. Ideal for measuring small semi-solid items and sous vide cooking. • Response time less than 1 second • Probe temperature range -75 to 250 °C	133-180 (1m lead) 133-182 (2m lead)	
FAST RESPONSE MEAT PROBE Image: Ima	This fast response, meat penetration probe is specially designed for measuring burger patties etc. Supplied with a one metre coiled lead. • Response time less than 2 seconds • Probe temperature range -75 to 250 °C	133-150	
BURGER PROBE	This burger probe has been specifically designed for use in fast food kitchens. The 12 mm stainless steel disc ensures the correct insertion depth (6 or 12 mm) every time. • Response time less than 4 seconds • Probe temperature range -75 to 250 °C	123-745 (6mm tip) 123-746 (12mm tip)	
MAGNET SURFACE PROBE	 This magnet probe is supplied with a 500 mm PTFE lead. Ideal for monitoring the surface temperature of ferrous metals, e.g. radiators or hotplates. Response time less than 30 seconds Probe temperature range -20 to 80 °C 	133-017	
ROLLER SURFACE PROBE	 These roller surface probes have either s/steel or PTFE wheels and are designed for measuring moving surfaces. Max. speed 100 m/min. Response time less than 2 seconds Probe temperature range -75 to 250 °C 	123-038 (s/steel) 123-036 (PTFE)	
VELCRO PIPE PROBE	This 500 mm wrap-around velcro pipe probe is suitable for both medium and large pipe temperature measurement in the HVAC industry. Supplied with a two metre lead. • Response time less than 30 seconds • Probe temperature range -10 to 100 °C	133-080	
PIPE CLAMP PROBE	 This robust, pipe clamp probe is suitable for measuring the surface temperature of pipes in refrigeration, heating and ventilating systems etc. Simple clamp-on design for simplicity of use, suitable for pipes from Ø6 to Ø30 mm. Response time less than 4 seconds Probe temperature range -10 to 100 °C 	133-040	
ADJUSTABLE TYRE PROBE	This fast response probe has an adjustable depth stop (1 to 10 mm) which the user can manually set. This probe has been specifically designed for measuring tyre temperatures, supplied with a one metre coiled lead and moulded thermocouple connector. • Response time less than 2 seconds • Probe temperature range -75 to 250 °C	343-100	

Please note: for type T thermocouple wire probes, replace the third digit (3) of the order code with the number 7

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THERMADATA® WIFI LOGGER THERMOCOUPLE PROBES

		Order code	£ each
GENERAL PURPOSE PROBE	 This stainless steel probe is suitable for a wide range of applications. Supplied with a one, three or five metre PTFE insulated lead and connector. Response time less than 5 seconds Probe temperature range -75 to 250 °C 	133-158 (1000 mm) 133-220 (3000 mm) 133-222 (5000 mm)	
FOOD SIMULANT PROBE	 This polypropylene simulant probe is designed for use in refrigeration, food storage and chill cabinets. Supplied with a one, three or five metre PTFE insulated lead and connector Probe temperature range -20 to 100 °C 	133-350 (1000 mm) 133-352 (3000 mm) 133-354 (5000 mm)	
Ø4.8MM STANDARD PROBE Image: Constraint of the standard problem Image: Constrated problem <td< td=""><td> This Ø4.8 mm general purpose, stainless steel probe is ideal for a variety of applications. Supplied with a two metre PVC lead. Response time less than 17 seconds Probe temperature range -50 to 100 °C </td><td>133-453</td><td></td></td<>	 This Ø4.8 mm general purpose, stainless steel probe is ideal for a variety of applications. Supplied with a two metre PVC lead. Response time less than 17 seconds Probe temperature range -50 to 100 °C 	133-453	
Ø6MM STANDARD PROBE	 This Ø6 mm general purpose, stainless steel probe is ideal for a variety of applications. Supplied with a two metre PVC lead. Response time less than 20 seconds Probe temperature range -50 to 100 °C 	133-448	
Ø6.35MM STANDARD AIR PROBE	 This Ø6.35 mm stainless steel air or gas probe is ideal for measuring air temperatures in chill cabinets, fridges, freezer, storage areas or similar. Supplied with a two metre PVC lead. Response time less than 2 seconds Probe temperature range -50 to 100 °C 	133-499	
MINERAL INSULATED PROBES	 These Ø1.5 mm high temperature MI probes can be bent to any shape without affecting performance. Supplied with a plain pot seal and a two metre PTFE lead. Response time less than 2 seconds Probe temperature range -200 to 1100 °C 	133-420 (180 mm) 133-421 (500 mm) 133-422 (1000 mm)	
MINERAL INSULATED PROBES	 These Ø3 mm high temperature MI probes can be bent to any shape without affecting performance. Supplied with a plain pot seal and a two metre PTFE lead. Response time less than 4 seconds Probe temperature range -200 to 1100 °C 	133-425 (180 mm) 133-428 (500 mm) 133-429 (1000 mm)	

Please note: Longer leads are available for the probes above, please contact our technical sales office for more information

CUSTOMISED & SPECIAL TEMPERATURE PROBES

ETI manufactures a wide range of fully interchangeable, fast response and special probes to meet most customer requirements but, if the probe you need is not in our catalogue or on our website, ask a member of our sales team and we will do our best to manufacture the probe to your specification. It is vital to choose the correct probe for a specific purpose. If you have any requirements outside the specifications of our current range, please call our sales office.

LUMBERG CONNECTOR TYPE T THERMOCOUPLE PROBES

		Order code	£ each
PENETRATION PROBE	 This stainless steel penetration probe is strong, versatile and incorporates a heavy duty, ribbed, polypropylene handle with a white end cap. Ideal for measuring liquids, semi-solids and granular materials. Response time less than 5 seconds Probe temperature range -75 to 250 °C 	177-166	
FAST RESPONSE PROBE	This stainless steel, fast response, needle penetration probe incorporates a heavy duty ribbed, polypropylene handle. Suitable for liquids and soft semi-solid materials including fish, fruit and other soft or delicate materials. • Response time less than 4 seconds • Probe temperature range -75 to 250 °C	177-100	
RIGID BETWEEN PACK PROBE	 This rigid, stainless steel, between pack probe is strong, versatile and incorporates a heavy duty ribbed, polypropylene handle. The probe has been specifically designed to measure between packs or boxes of produce. Response time less than 3 seconds Probe temperature range -75 to 250 °C 	177-060	
AIR OR GAS WIRE PROBE	 This fast response, air or gas wire probe is ideal for measuring air temperatures in fridges, freezers, chill cabinets and similar. Supplied complete with a one metre PTFE lead. Response time less than 2 seconds Probe temperature range -75 to 250 °C 	177-372	

Please note: the above type T thermocouple probes are suitable for use with the Therma 22 & Therma 22 Plus

WATERPROOF TYPE T THERMOCOUPLE PROBES

		Order code	£ each
PENETRATION PROBE	 This waterproof, stainless steel, penetration probe with Lumberg connector is strong, versatile and incorporates a heavy duty, ribbed, polypropylene handle with a white end cap. Ideal for measuring liquids, semi-solids and granular materials. Response time less than 5 seconds Probe temperature range -75 to 250 °C 	177-266	
PENETRATION PROBE Image: Constraint of the second	 This waterproof, stainless steel, plug-mounted probe with lumberg connector is strong, versatile and ideal for measuring liquids, semi-solids and granular materials. Response time less than 4 seconds Probe temperature range -75 to 250 °C 	177-200	

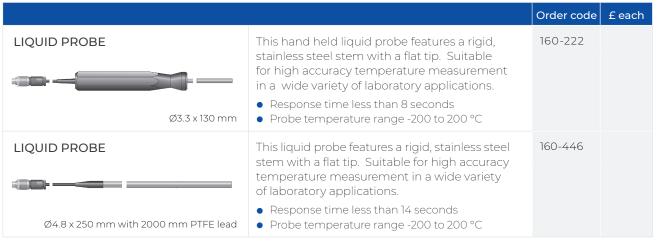
Please note: the above type T thermocouple probes (177-266 & 177-200) are suitable for use with the Therma 22 Plus and are waterproof to IP67 when connected to an instrument

PT100 CLASS A TEMPERATURE PROBES

		Order code	£ each
PENETRATION PROBE	 This stainless steel penetration probe is strong, versatile and ideal for measuring liquids and semi-solids accurately in a variety of applications. Response time less than 6 seconds Probe temperature range -100 to 200 °C 	160-160	
AIR OR GAS PROBE	 This stainless steel air or gas probe is ideal for measuring air or gas temperatures accurately in rooms and ducts in HVAC and industrial applications. Response time less than 4 seconds Probe temperature range -100 to 200 °C 	160-300	
LIQUID PROBE	 This liquid probe features a rigid, stainless steel stem with a flat tip. The probe is suitable for accurate temperature measurement in a wide variety of laboratory applications. Response time less than 6 seconds Probe temperature range -100 to 200 °C 	160-220	
AIR OR GAS WIRE PROBE	 This FEP insulated air or gas wire probe is ideal for measuring air or gas temperatures accurately in a variety of HVAC and industrial applications. Response time less than 4 seconds Probe temperature range -100 to 200 °C 	160-372	

Please note: the above PT100 Class A probes are suitable for use with the Precision 0.1 $^\circ\mathrm{C}$ thermometer

PT100 1/10TH DIN TEMPERATURE PROBES



Please note: accuracy of the above PT100 1/10th DIN probes is ±0.03 °C ±0.1 % of reading between -100 °C to 200 °C otherwise ±0.2 % of reading. The above probes are suitable for use with the Precision Plus 0.01 °C thermometer

NTC THERMISTOR PROBES WITH LUMBERG CONNECTOR

		Order code	£ each
Ø3.3 x 130 mm	This stainless steel penetration probe is strong, versatile and incorporates a heavy duty, ribbed, polypropylene handle with a colour-coded end cap. Ideal for measuring liquids, semi-solids and granular materials. • Response time less than 5 seconds • Probe temperature range -40 to 150 °C	174-161 174-162 174-164 174-165 174-166 174-167	
Ø3.3 x 300 mm	 This extended, stainless steel penetration probe is strong, versatile and incorporates a heavy duty, ribbed, polypropylene handle with a white end cap. Ideal for measuring liquids, semi-solids and granular materials. Response time less than 5 seconds Probe temperature range -40 to 150 °C 	174-168	
FAST RESPONSE PROBE	 This stainless steel, fast response, needle penetration probe incorporates a heavy duty ribbed, polypropylene handle. The probe is suitable for liquids and soft semi-solids including fish, fruit and other delicate materials. Response time less than 4 seconds Probe temperature range -40 to 150 °C 	174-100	
RIGID BETWEEN PACK PROBE	 This rigid, stainless steel between pack probe is strong, versatile and incorporates a heavy duty ribbed, polypropylene handle. The probe has been specifically designed to measure between packs or boxes of produce. Response time less than 3 seconds Probe temperature range -40 to 150 °C 	174-060	
AIR OR GAS PROBE	 This stainless steel, fast response air or gas probe incorporates a heavy duty ribbed, polypropylene handle. The probe is ideal for measuring air temperature in refrigeration units, storage areas and other similar applications. Response time less than 2 seconds Probe temperature range -40 to 150 °C 	174-300	
PENETRATION PROBE	This robust, stainless steel penetration probe incorporates a heavy duty, T-shaped polypropylene handle. The strong, durable probe is suitable for a wide variety of heavy duty, general purpose industrial or food processing applications. • Response time less than 4 seconds • Probe temperature range -40 to 150 °C	170-169	
Ø9.5 x 1000 mm	This extended, robust Ø9.5 mm stainless steel reinforced probe incorporates a heavy duty, T-shaped polypropylene handle and a reduced sensing tip (Ø6.35 x 25 mm) for faster response. Ideal for a wide variety of heavy duty, general purpose industrial or food processing applications. Response time less than 15 seconds Probe temperature range -40 to 150 °C	170-136	

Please note: the above NTC thermistor probes are suitable for use with the Therma 20, 22, 20 Plus, 22 Plus & 8100 Plus

NTC THERMISTOR PROBES WITH LUMBERG CONNECTOR

		Order code	£ each
CORKSCREW PROBE	 This frozen food probe incorporates a heavy duty T-shaped, polypropylene handle and a corkscrew design sensing tip. Ideal for measuring deep frozen foods or other frozen materials. Supplied with a one metre PVC detachable lead. Response time less than 9 seconds Probe temperature range -40 to 150 °C 	170-175	
FOOD SIMULANT PROBE	 This polypropylene probe is designed for use in food storage, chill cabinets and refrigeration where simulation of food temperature is required. The probe incorporates a one metre PUR /PVC lead and compatible Lumberg connector. Probe temperature range -20 to 100 °C 	170-350	
AIR OR GAS WIRE PROBE	 This fast response, air or gas wire probe is ideal for measuring air temperature in chill cabinets, fridges, freezers, offices, storage areas and similar. Supplied with a one metre FEP lead. Response time less than 2 seconds Probe temperature range -40 to 150 °C 	170-372	
FOIL BETWEEN PACK PROBE Image: Constraint of the second	 This easy to use, flexible, fast response, foil between pack probe has been designed to measure between packs or boxes of produce in a variety of applications. Response time less than 3 seconds Probe temperature range 0 to 100 °C 	170-090	

Please note: the above NTC thermistor probes are suitable for use with the Therma 20, 22, 20 Plus, 22 Plus & 8100 Plus

WATERPROOF NTC THERMISTOR PROBES

		Order code	£ each
Ø3.3 x 130 mm	 This waterproof, stainless steel penetration probe with Lumberg connector is versatile, strong and incorporates a heavy duty, ribbed, polypropylene handle with a white end cap. Ideal for measuring liquids, semi-solids and granular materials. Response time less than 5 seconds Probe temperature range -40 to 150 °C 	174-266	
Ø3.3 x 100 mm	 This waterproof, stainless steel plug-mounted penetration probe with Lumberg connector is versatile and strong. Ideal for measuring liquids, semi-solids and granular materials in a wide variety of applications. Response time less than 4 seconds Probe temperature range -40 to 150 °C 	172-000	

Please note: the above NTC thermistor probes (174-266 & 172-000) are suitable for use with the Therma 20 Plus, 22 Plus & 8100 Plus and are waterproof to IP67 when connected to an instrument

