










# Hand Held Temperature Probes

## type K thermocouple









|                                                                                                                                  |                                                                                                                                                                                                                                                                                                                 | order code                          |  |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--|
| penetration probe<br><br>Ø3.3 x 130 mm          | This stainless steel penetration probe is strong, versatile and ideal for measuring liquids and semi-solids. <ul style="list-style-type: none"> <li>• response time less than 3 seconds</li> <li>• probe temperature range -75 to 250 °C</li> </ul>                                                             | 123-160<br>323-160<br>(coiled lead) |  |
| penetration probe<br><br>Ø3.3 x 300 mm          | This extended, stainless steel penetration probe is strong, versatile and ideal for measuring liquids and semi-solids. <ul style="list-style-type: none"> <li>• response time less than 3 seconds</li> <li>• probe temperature range -75 to 250 °C</li> </ul>                                                   | 123-168<br>323-168<br>(coiled lead) |  |
| fast response probe<br><br>Ø3.3 x 100 mm        | This reduced tip, fast response, stainless steel penetration probe is ideal for liquids or semi-solids i.e. soft rubber and other similar materials. <ul style="list-style-type: none"> <li>• response time less than 2 seconds</li> <li>• probe temperature range -75 to 250 °C</li> </ul>                     | 123-159<br>323-159<br>(coiled lead) |  |
| needle penetration probe<br><br>Ø1.8 x 130 mm  | This fast response, stainless steel needle penetration probe is ideal for liquids or semi-solids i.e. soft rubber or plastic. <ul style="list-style-type: none"> <li>• response time less than 2 seconds</li> <li>• probe temperature range -75 to 250 °C</li> </ul>                                            | 123-100<br>323-100<br>(coiled lead) |  |
| oven probe<br><br>Ø3.3 x 130 mm               | This oven probe has a stainless steel handle and a two metre PTFE high temperature lead. An oven probe without a handle is available. <ul style="list-style-type: none"> <li>• response time less than 4 seconds</li> <li>• probe temperature range -75 to 250 °C</li> </ul>                                    | 133-170<br>133-173<br>(no handle)   |  |
| rigid between pack probe<br><br>Ø4.5 x 130 mm | This rigid, stainless steel between pack probe is strong and versatile, designed specifically to measure between packets or boxes of produce. <ul style="list-style-type: none"> <li>• response time less than 3 seconds</li> <li>• probe temperature range -75 to 250 °C</li> </ul>                            | 123-060<br>323-060<br>(coiled lead) |  |
| high temperature probe<br><br>Ø1.5 x 130 mm   | This flexible, mineral insulated (MI) probe can be bent to any shape without affecting its performance. Ideal for measuring high temperatures i.e. fryers or furnaces. <ul style="list-style-type: none"> <li>• response time less than 2 seconds</li> <li>• probe temperature range -200 to 1100 °C</li> </ul> | 123-204<br>323-204<br>(coiled lead) |  |
| high temperature probe<br><br>Ø3 x 130 mm     | This flexible, mineral insulated (MI) probe can be bent to any shape without affecting its performance. Ideal for measuring high temperatures i.e. fryers or furnaces. <ul style="list-style-type: none"> <li>• response time less than 2 seconds</li> <li>• probe temperature range -200 to 1100 °C</li> </ul> | 123-212<br>323-212<br>(coiled lead) |  |
| high temperature probe<br><br>Ø3 x 300 mm     | The above flexible, mineral insulated (MI) probe is also available with an extended 300 mm probe.                                                                                                                                                                                                               | 123-213<br>323-213<br>(coiled lead) |  |

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



# Hand Held Temperature Probes

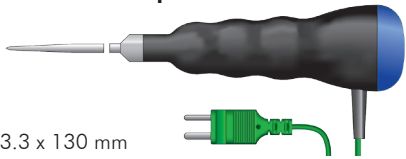
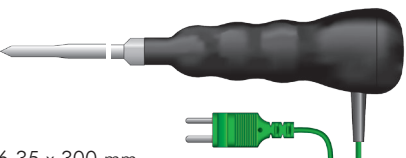
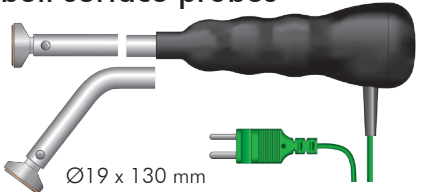
## type K thermocouple

|                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                  | order code                                  |  |
|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--|
| <b>Binder probe</b><br><br>Ø3 x 130 mm                | This rounded tip, stainless steel probe is designed for inserting into Binder self-sealing glands to measure the temperature of vessels or radiators. <ul style="list-style-type: none"> <li>• response time less than 3 seconds</li> <li>• probe temperature range -75 to 250 °C</li> </ul>                                     | 123-240<br>323-240<br><i>(coiled lead)</i>  |  |
| <b>air or gas probe</b><br><br>Ø4.5 x 130 mm          | 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. <ul style="list-style-type: none"> <li>• response time less than 0.5 of a second</li> <li>• probe temperature range -75 to 250 °C</li> </ul>               | 123-300<br>323-300<br><i>(coiled lead)</i>  |  |
| <b>ribbon surface probe</b><br><br>Ø15 x 130 mm       | 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. <ul style="list-style-type: none"> <li>• response time less than 0.5 of a second</li> <li>• probe temperature range -75 to 250 °C</li> </ul>       | 123-030<br>123-032<br><i>(right-angled)</i> |  |
| <b>ribbon surface probe</b><br><br>Ø8 x 130 mm      | 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. <ul style="list-style-type: none"> <li>• response time less than 0.5 of a second</li> <li>• probe temperature range -75 to 250 °C</li> </ul>       | 123-044<br>123-052<br><i>(right-angled)</i> |  |
| <b>waterproof surface probe</b><br><br>Ø8 x 130 mm  | 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. <ul style="list-style-type: none"> <li>• response time less than 0.5 of a second</li> <li>• probe temperature range -75 to 250 °C</li> </ul>              | 123-046<br>323-046<br><i>(coiled lead)</i>  |  |
| <b>surface probe</b><br><br>Ø6 x 130 mm             | This surface probe incorporates a spring-loaded copper disc sensing tip. The probe is ideal for a variety of surface temperature measurements. <ul style="list-style-type: none"> <li>• response time less than 2 seconds</li> <li>• probe temperature range -100 to 600 °C</li> </ul>                                           | 123-000                                     |  |
| <b>heavy duty surface probe</b><br><br>Ø12 x 130 mm | This high temperature surface probe is ideal for measuring the temperature of griddles, hotplates etc. A right-angled version is also available. <ul style="list-style-type: none"> <li>• response time less than 1 second</li> <li>• probe temperature range -100 to 1000 °C</li> </ul>                                         | 123-020<br>123-028<br><i>(right-angled)</i> |  |
| <b>penetration probe</b><br><br>Ø3.3 x 100 mm       | 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. <ul style="list-style-type: none"> <li>• response time less than 3 seconds</li> <li>• probe temperature range -75 to 250 °C</li> </ul> | 123-162<br>123-158<br><i>(reduced tip)</i>  |  |

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

# Waterproof Temperature Probes





## heavy duty type K thermocouple

|                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                     | order code                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>penetration probe</b></p>  <p>Ø3.3 x 130 mm</p>   | <p>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.</p> <ul style="list-style-type: none"> <li>• response time less than 3 seconds</li> <li>• probe temperature range -75 to 250 °C</li> </ul>                                                       | <ul style="list-style-type: none"> <li>● 143-161</li> <li>● 143-162</li> <li>● 143-164</li> <li>● 143-165</li> <li>○ 143-166</li> <li>● 143-167</li> </ul> |
| <p><b>reduced tip probe</b></p>  <p>Ø6.35 x 300 mm</p>  | <p>This extended, reduced tip, waterproof, stainless steel penetration probe incorporates a reduced tip and heavy duty ribbed handle, ideal for heavy duty applications including food processing, asphalt and other similar materials.</p> <ul style="list-style-type: none"> <li>• response time less than 10 seconds</li> <li>• probe temperature range -75 to 250 °C</li> </ul> | 143-120                                                                                                                                                    |
| <p><b>bell surface probes</b></p>  <p>Ø19 x 130 mm</p> | <p>These fast response, waterproof 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.</p> <ul style="list-style-type: none"> <li>• response time less than 5 seconds</li> <li>• probe temperature range -75 to 200 °C</li> </ul>         | 143-080<br><i>(straight)</i><br>143-084<br><i>(45° angle)</i><br>143-086<br><i>(90° angle)</i>                                                             |

the above thermocouple probes are supplied with a moulded thermocouple connector.

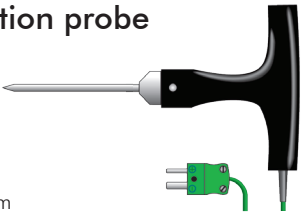
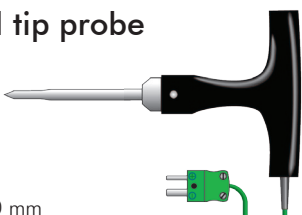
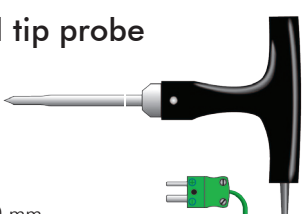
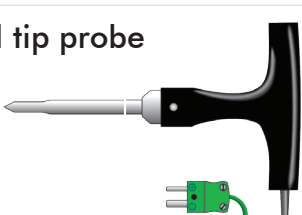


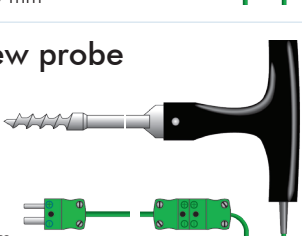
# Interchangeable Probe Handle

## & plug-mounted type K thermocouple probes

|                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                    | order code                                  | £ each |
|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------|
| <p><b>interchangeable probe handle</b></p>  <p>Ø25 x 151 mm</p> | <p>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.</p>                                                                                                               | 323-950                                     |        |
| <p><b>penetration probe</b></p>  <p>Ø3.3 x 120 mm</p>           | <p>This stainless steel, penetration probe is strong, versatile and ideal for liquids or semi-solids.</p> <ul style="list-style-type: none"> <li>• response time less than three seconds</li> <li>• probe temperature range -75 to 250 °C</li> </ul>                                                               | 133-161                                     |        |
| <p><b>air or gas probe</b></p>  <p>Ø3.3 x 120 mm</p>            | <p>This probe has a perforated stainless steel tip for fast response. Ideal for chill cabinets, fridges, freezers and HVAC units.</p> <ul style="list-style-type: none"> <li>• response time less than one second</li> <li>• probe temperature range -75 to 250 °C</li> </ul>                                      | 133-301                                     |        |
| <p><b>surface probe</b></p>  <p>Ø8 x 120 mm</p>                 | <p>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.</p> <ul style="list-style-type: none"> <li>• response time less than one second</li> <li>• probe temperature range -75 to 250 °C</li> </ul> | 133-045<br>133-046<br><i>(right-angled)</i> |        |

# Heavy Duty Temperature Probes









## type K thermocouple

|                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                        | order code                                   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--|
| <p><b>penetration probe</b></p>  <p>Ø4 x 100 mm</p>              | <p>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.</p> <ul style="list-style-type: none"> <li>• response time less than 4 seconds</li> <li>• probe temperature range -75 to 250 °C</li> </ul>                                | 133-124                                      |  |
| <p><b>reduced tip probe</b></p>  <p>Ø6.35 x 100 mm</p>           | <p>This robust, stainless steel, reinforced needle probe incorporates a T-shaped polypropylene handle and a reduced sensing tip for faster response. Ideal for a variety of heavy duty applications including food processing etc.</p> <ul style="list-style-type: none"> <li>• response time less than 9 seconds</li> <li>• probe temperature range -75 to 250 °C</li> </ul>          | 133-126                                      |  |
| <p><b>reduced tip probe</b></p>  <p>Ø6.35 x 300 mm</p>          | <p>This extended robust, stainless steel, reinforced needle probe incorporates a T-shaped polypropylene handle and a reduced sensing tip for faster response. Ideal for a variety of heavy duty applications including food processing etc.</p> <ul style="list-style-type: none"> <li>• response time less than 9 seconds</li> <li>• probe temperature range -75 to 250 °C</li> </ul> | 133-120                                      |  |
| <p><b>reduced tip probe</b></p>  <p>Ø8 x 500 mm</p>            | <p>This extended, stainless steel, reinforced needle probe incorporates a T-shaped polypropylene handle and a reduced sensing tip for faster response. Ideal for a variety of heavy duty applications including food processing etc.</p> <ul style="list-style-type: none"> <li>• response time less than 10 seconds</li> <li>• probe temperature range -75 to 250 °C</li> </ul>       | 133-130                                      |  |
| <p><b>reduced tip probe</b></p>  <p>Ø9.5 x 1000 or 1400 mm</p> | <p>This Ø9.5 mm stainless steel, reinforced needle probe incorporates a T-shaped polypropylene handle and a reduced sensing tip for faster response. Ideal for applications where a longer probe is required, i.e. grain silos.</p> <ul style="list-style-type: none"> <li>• response time less than 17 seconds</li> <li>• probe temperature range -75 to 250 °C</li> </ul>            | 133-136<br>(1000 mm)<br>133-135<br>(1400 mm) |  |
| <p><b>reduced tip probe</b></p>  <p>Ø9.5 x 2000 mm</p>         | <p>This extended stainless steel, reinforced needle probe incorporates a T-shaped polypropylene handle and a reduced sensing tip for faster response. Ideal for applications where a very long probe is required, i.e. grain silos.</p> <ul style="list-style-type: none"> <li>• response time less than 17 seconds</li> <li>• probe temperature range -75 to 250 °C</li> </ul>        | 133-133                                      |  |
| <p><b>corkscrew probe</b></p>  <p>Ø8 x 100 mm</p>              | <p>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 PVC detachable lead.</p> <ul style="list-style-type: none"> <li>• response time less than 9 seconds</li> <li>• probe temperature range -75 to 250 °C</li> </ul>             | 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 Temperature Probes

## exposed junction wire type K thermocouple

|                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                  | order code                                   |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--|
| <b>PTFE wire probe</b><br><br>Ø1.5 x 1000 or 2000 mm                | This PTFE insulated, exposed junction wire probe is suitable for measuring the air temperature in fridges, freezers, ovens etc. <ul style="list-style-type: none"> <li>• response time less than 0.5 of a second</li> <li>• probe temperature range -75 to 250 °C</li> </ul>                                                                                     | 133-362<br>(1000 mm)<br>133-363<br>(2000 mm) |  |
| <b>heavy duty PTFE wire probe</b><br><br>Ø2.4 x 1000 or 2000 mm     | This heavy duty, PTFE insulated wire probe is ideal for measuring the air temperature in fridges, freezers, ovens etc. <ul style="list-style-type: none"> <li>• response time less than 0.5 of a second</li> <li>• probe temperature range -75 to 250 °C</li> </ul>                                                                                              | 133-372<br>(1000 mm)<br>133-373<br>(2000 mm) |  |
| <b>fibreglass wire probe</b><br><br>Ø1.5 x 1000 or 2000 mm          | This fibreglass, exposed junction wire probe is ideal for measuring the air temperature of ovens, hot cupboards and similar appliances. <ul style="list-style-type: none"> <li>• response time less than 0.5 of a second</li> <li>• probe temperature range -60 to 350 °C</li> </ul>                                                                             | 133-382<br>(1000 mm)<br>133-383<br>(2000 mm) |  |
| <b>high temperature wire probe</b><br><br>Ø3 x 1000 or 2000 mm      | 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. <ul style="list-style-type: none"> <li>• response time less than 0.5 of a second</li> <li>• probe temperature range -60 to 600 °C</li> </ul> | 133-387<br>(1000 mm)<br>133-389<br>(2000 mm) |  |
| <b>attachment pads</b><br><br>12 x 18 mm                          | These easy to use attachment pads are recommended for attaching small diameter wire thermocouples to surfaces. Supplied in packs of 25. <ul style="list-style-type: none"> <li>• for use over the range of -50 to 200 °C</li> </ul>                                                                                                                              | 600-485                                      |  |
| <b>probe extension lead - straight</b><br><br>1000 or 2000 mm     | 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<br>(1000 mm)<br>627-733<br>(2000 mm) |  |
| <b>probe extension lead - coiled</b><br><br>1000 or 2000 mm       | 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<br>(1000 mm)<br>627-741<br>(2000 mm) |  |
| <b>miniature plug or socket</b><br><br>16 x 19 mm      16 x 25 mm | 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<br>(plug)<br>421-501<br>(socket)     |  |




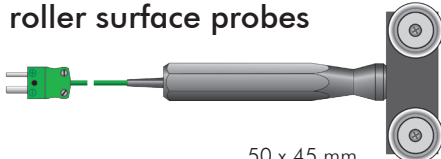

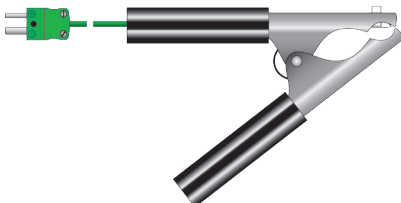
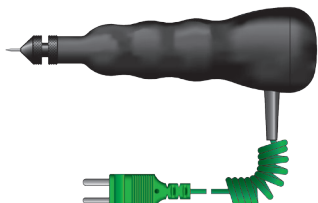
Please note: for hand held type T thermocouple wire probes, replace the third digit (3) of the order code with the number 7



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# Special Temperature Probes

## type K thermocouple

|                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                       | order code                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| <b>miniature needle probe</b><br><br>Ø1.4 reducing to Ø1 mm tip x 50 mm | 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. <ul style="list-style-type: none"> <li>• response time less than 1 second</li> <li>• probe temperature range -75 to 250 °C</li> </ul>                                                                                                   | 133-180<br><i>(1m lead)</i><br>133-182<br><i>(2m lead)</i> |
| <b>fast response meat probe</b><br><br>Ø1 mm tip x 90 mm                | This fast response, meat penetration probe is specially designed for measuring burger patties etc. Supplied with a one metre coiled lead. <ul style="list-style-type: none"> <li>• response time less than 1 second</li> <li>• probe temperature range -75 to 250 °C</li> </ul>                                                                                                                       | 133-150                                                    |
| <b>magnet surface probe</b><br><br>Ø24 x 28 mm                          | 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. <ul style="list-style-type: none"> <li>• response time less than 20 seconds</li> <li>• probe temperature range -20 to 80 °C</li> </ul>                                                                                                            | 133-017                                                    |
| <b>roller surface probes</b><br><br>50 x 45 mm                         | These roller surface probes have either s/steel or PTFE wheels and are designed for measuring moving surfaces. Max. speed 100 m/min. <ul style="list-style-type: none"> <li>• response time less than 0.5 of a second</li> <li>• probe temperature range -75 to 250 °C</li> </ul>                                                                                                                     | 123-038<br><i>(s/steel)</i><br>123-036<br><i>(PTFE)</i>    |
| <b>velcro pipe probe</b><br><br>20 x 500 mm                           | This 500 mm wrap-around velcro pipe probe is suitable for medium and large pipe temperature measurement in the HVAC industry. Supplied with a two metre lead. <ul style="list-style-type: none"> <li>• response time less than 20 seconds</li> <li>• probe temperature range -10 to 100 °C</li> </ul>                                                                                                 | 133-080                                                    |
| <b>pipe clamp probe</b><br>                                           | 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. <ul style="list-style-type: none"> <li>• response time less than 2 seconds</li> <li>• probe temperature range -10 to 100 °C</li> </ul>                            | 133-040                                                    |
| <b>adjustable tyre probe</b><br><br>Ø1 x 10 mm                        | 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. <ul style="list-style-type: none"> <li>• response time less than 0.5 of a second</li> <li>• probe temperature range -75 to 250 °C</li> </ul> | 343-100                                                    |

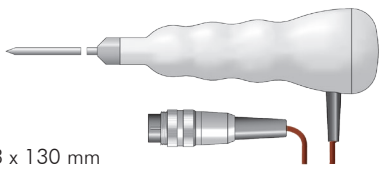
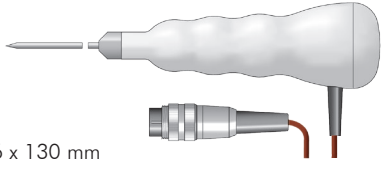
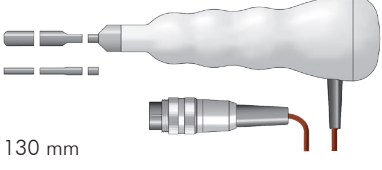

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# Hand Held Temperature Probes

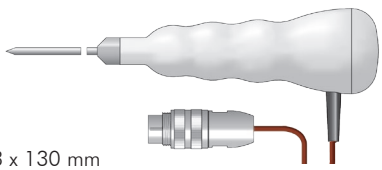

type T thermocouple probes with lumberg connectors

|                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                   | order code |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <p><b>penetration probe</b></p>  <p>Ø3.3 x 130 mm</p>                  | <p>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.</p> <ul style="list-style-type: none"> <li>• response time less than 3 seconds</li> <li>• probe temperature range -75 to 250 °C</li> </ul>                      | 177-166    |
| <p><b>fast response probe</b></p>  <p>Ø2.6 x 130 mm</p>                | <p>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.</p> <ul style="list-style-type: none"> <li>• response time less than 1 second</li> <li>• probe temperature range -75 to 250 °C</li> </ul> | 177-100    |
| <p><b>rigid between pack probe</b></p>  <p>Ø6 x 130 mm</p>            | <p>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.</p> <ul style="list-style-type: none"> <li>• response time less than 3 seconds</li> <li>• probe temperature range -75 to 250 °C</li> </ul>             | 177-060    |
| <p><b>air or gas wire probe</b></p>  <p>Ø2.4 x 1000 mm PTFE lead</p> | <p>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.</p> <ul style="list-style-type: none"> <li>• response time less than 0.5 seconds</li> <li>• probe temperature range -75 to 250 °C</li> </ul>                                                 | 177-372    |

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

# Waterproof Temperature Probes

type T thermocouple probes with lumberg connectors





|                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                           | order code |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <p><b>penetration probe</b></p>  <p>Ø3.3 x 130 mm</p> | <p>This waterproof, 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.</p> <ul style="list-style-type: none"> <li>• response time less than 3 seconds</li> <li>• probe temperature range -75 to 250 °C</li> </ul> | 177-266    |
| <p><b>penetration probe</b></p>  <p>Ø3.3 x 100 mm</p> | <p>This waterproof, stainless steel, plug-mounted probe is strong, versatile and ideal for measuring liquids, semi-solids and granular materials.</p> <ul style="list-style-type: none"> <li>• response time less than 3 seconds</li> <li>• probe temperature range -75 to 250 °C</li> </ul>                                                                              | 177-200    |

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





# PT100 Class A Temperature Probes

for use with the Precision 0.1 °C thermometer

|                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                  | order code |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--|
| <p><b>penetration probe</b></p>  <p>Ø3.3 x 130 mm</p>                            | <p>This stainless steel penetration probe is strong, versatile and ideal for measuring liquids and semi-solids accurately in a variety of applications.</p> <ul style="list-style-type: none"> <li>• response time less than 4 seconds</li> <li>• probe temperature range -50 to 200 °C</li> </ul>                               | 160-160    |  |
| <p><b>air or gas probe</b></p>  <p>Ø3.3 x 130 mm</p>                             | <p>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.</p> <ul style="list-style-type: none"> <li>• response time less than 4 seconds</li> <li>• probe temperature range -50 to 200 °C</li> </ul>                            | 160-300    |  |
| <p><b>liquid probe</b></p>  <p>Ø3.3 x 130 mm</p>                                 | <p>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.</p> <ul style="list-style-type: none"> <li>• response time less than 4 seconds</li> <li>• probe temperature range -50 to 200 °C</li> </ul> | 160-220    |  |
| <p><b>air or gas wire probe</b></p>  <p>Ø3.7 x 30 mm with 1000 mm FEP lead</p> | <p>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.</p> <ul style="list-style-type: none"> <li>• response time less than 4 seconds</li> <li>• probe temperature range -50 to 200 °C</li> </ul>                               | 160-372    |  |

# PT100 1/10 DIN Temperature Probes







for use with the Precision Plus 0.01 °C thermometer

|                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                     | order code |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--|
| <p><b>liquid probe</b></p>  <p>Ø3.3 x 130 mm</p>                        | <p>This hand held liquid probe features a rigid, stainless steel stem with a flat tip. Suitable for high accuracy temperature measurement in a wide variety of laboratory applications.</p> <ul style="list-style-type: none"> <li>• response time less than 4 seconds</li> <li>• probe temperature range -200 to 200 °C</li> </ul> | 160-222    |  |
| <p><b>liquid probe</b></p>  <p>Ø4.8 x 250 mm with 2000 mm PTFE lead</p> | <p>This liquid probe features a rigid, stainless steel stem with a flat tip. Suitable for high accuracy temperature measurement in a wide variety of laboratory applications.</p> <ul style="list-style-type: none"> <li>• response time less than 10 seconds</li> <li>• probe temperature range -200 to 200 °C</li> </ul>          | 160-446    |  |



# NTC Thermistor Temperature Probes

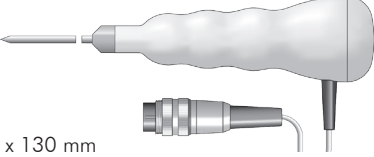
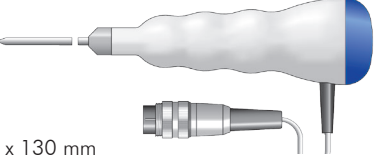
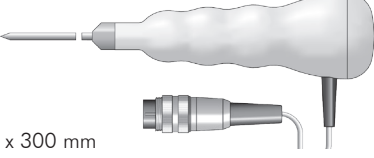
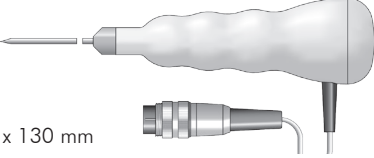
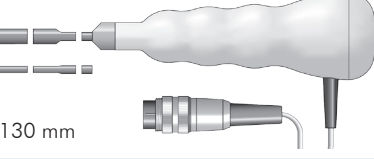
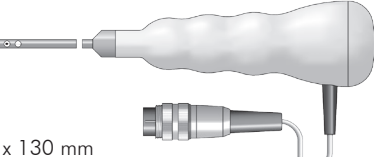
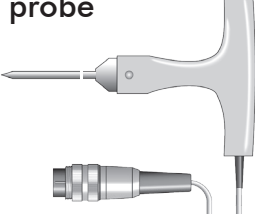
for use with ThermaData® loggers

|                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                  | order code                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| <p><b>general purpose probe</b></p>  <p>Ø3.3 x 100 mm</p>     | <p>This stainless steel penetration probe is suitable for a wide range of remote monitoring applications. Supplied with a one, two or three metre PUR/PVC lead and three-pin Binder connector.</p> <ul style="list-style-type: none"> <li>• response time less than 2 seconds</li> <li>• probe temperature range -40 to 125 °C</li> </ul>                                        | <p>172-011<br/>(1000 mm)<br/>172-012<br/>(2000 mm)<br/>172-013<br/>(3000 mm)</p> |
| <p><b>general purpose probe</b></p>  <p>Ø3.3 x 300 mm</p>     | <p>This extended, stainless steel penetration probe is suitable for a wide variety of remote monitoring applications. Supplied with a one metre PUR/PVC lead and three-pin Binder connector.</p> <ul style="list-style-type: none"> <li>• response time less than 2 seconds</li> <li>• probe temperature range -40 to 125 °C</li> </ul>                                          | <p>172-168</p>                                                                   |
| <p><b>liquid probe</b></p>  <p>Ø3.3 x 100 mm</p>              | <p>This liquid probe features a rigid, stainless steel stem with a flat tip. Ideal for a wide variety of pharmaceutical applications. Supplied with a one, two or three metre PUR/PVC lead and three-pin Binder connector.</p> <ul style="list-style-type: none"> <li>• response time less than 2 seconds</li> <li>• probe temperature range -40 to 125 °C</li> </ul>            | <p>172-382<br/>(1000 mm)<br/>172-383<br/>(2000 mm)<br/>172-384<br/>(3000 mm)</p> |
| <p><b>air or gas probe</b></p>  <p>Ø3.7 x 30 mm</p>         | <p>This stainless steel, air or gas probe is ideal for measuring air temperature in chill cabinets, fridges/freezers, offices, storage areas etc. Supplied with a one, two or three metre PUR/PVC lead and three-pin Binder connector.</p> <ul style="list-style-type: none"> <li>• response time less than 1 second</li> <li>• probe temperature range -40 to 125 °C</li> </ul> | <p>172-372<br/>(1000 mm)<br/>172-373<br/>(2000 mm)<br/>172-374<br/>(3000 mm)</p> |
| <p><b>food simulant probe</b></p>  <p>9 x 100 x 100 mm</p>  | <p>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 three-pin Binder connector.</p> <ul style="list-style-type: none"> <li>• probe temperature range 0 to 100 °C</li> </ul>                                                 | <p>172-350</p>                                                                   |
| <p><b>logger extension lead</b></p>  <p>150 mm PVC lead</p> | <p>This logger extension lead enables the user to connect any ETI NTC thermistor probe, fitted with a Lumberg connector to a ThermaData logger. The extension lead can be extended up to a maximum of two metres without adversely affecting the readings or accuracy.</p> <ul style="list-style-type: none"> <li>• Maximum temperature 80 °C</li> </ul>                         | <p>172-015</p>                                                                   |

Please note: the maximum temperatures quoted are probe tip temperatures. The maximum PUR/PVC lead temperature is 80 °C.

# Hand Held Temperature Probes

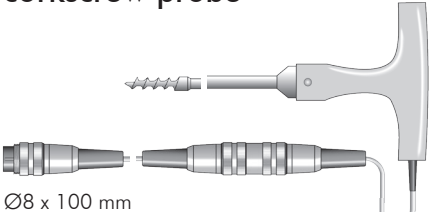
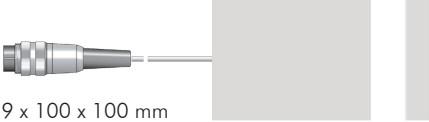


NTC thermistor probes with lumberg connectors

|                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                            | order code                                                                                                                                                                                                                                                                                                           |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p><b>penetration probe</b></p>  <p>Ø3.3 x 130 mm</p>        | <p>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.</p> <ul style="list-style-type: none"> <li>• response time less than 2 seconds</li> <li>• probe temperature range -40 to 150 °C</li> </ul>                               | 174-166                                                                                                                                                                                                                                                                                                              |  |
| <p><b>penetration probe</b></p>  <p>Ø3.3 x 130 mm</p>        | <p>The above penetration probe is available with a colour-coded end cap.</p> <ul style="list-style-type: none"> <li>• response time less than 2 seconds</li> <li>• probe temperature range -40 to 150 °C</li> </ul>                                                                                                                                                                        | <ul style="list-style-type: none"> <li><span style="color: blue;">●</span> 174-161</li> <li><span style="color: black;">●</span> 174-162</li> <li><span style="color: green;">●</span> 174-164</li> <li><span style="color: red;">●</span> 174-165</li> <li><span style="color: yellow;">●</span> 174-167</li> </ul> |  |
| <p><b>penetration probe</b></p>  <p>Ø3.3 x 300 mm</p>       | <p>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.</p> <ul style="list-style-type: none"> <li>• response time less than 2 seconds</li> <li>• probe temperature range -40 to 150 °C</li> </ul>                     | 174-168                                                                                                                                                                                                                                                                                                              |  |
| <p><b>fast response probe</b></p>  <p>Ø2.6 x 130 mm</p>    | <p>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.</p> <ul style="list-style-type: none"> <li>• response time less than 1 second</li> <li>• probe temperature range -40 to 150 °C</li> </ul>              | 174-100                                                                                                                                                                                                                                                                                                              |  |
| <p><b>rigid between pack probe</b></p>  <p>Ø6 x 130 mm</p> | <p>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.</p> <ul style="list-style-type: none"> <li>• response time less than 3 seconds</li> <li>• probe temperature range -40 to 150 °C</li> </ul>                       | 174-060                                                                                                                                                                                                                                                                                                              |  |
| <p><b>air or gas probe</b></p>  <p>Ø3.3 x 130 mm</p>       | <p>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.</p> <ul style="list-style-type: none"> <li>• response time less than 2 seconds</li> <li>• probe temperature range -40 to 150 °C</li> </ul>          | 174-300                                                                                                                                                                                                                                                                                                              |  |
| <p><b>penetration probe</b></p>  <p>Ø4 x 100 mm</p>        | <p>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.</p> <ul style="list-style-type: none"> <li>• response time less than 5 seconds</li> <li>• probe temperature range -40 to 150 °C</li> </ul> | 170-169                                                                                                                                                                                                                                                                                                              |  |

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

# Hand Held Temperature Probes

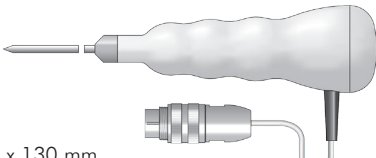

NTC thermistor probes with lumberg connectors

|                                                                                                                                                                   | order code                                                                                                                                                                                                                                                                                                                                                                        |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| <p><b>corkscrew probe</b></p>  <p>Ø8 x 100 mm</p>                                | <p>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.</p> <ul style="list-style-type: none"> <li>• response time less than 6 seconds</li> <li>• probe temperature range -40 to 150 °C</li> </ul> | 170-175 |
| <p><b>food simulant probe</b></p>  <p>9 x 100 x 100 mm</p>                       | <p>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.</p> <ul style="list-style-type: none"> <li>• probe temperature range 0 to 100 °C</li> </ul>                                                | 170-350 |
| <p><b>air or gas wire probe</b></p>  <p>Ø3.7 x 30 mm with 1000 mm FEP lead</p>   | <p>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.</p> <ul style="list-style-type: none"> <li>• response time less than 1 second</li> <li>• probe temperature range -40 to 150 °C</li> </ul>                                       | 170-372 |
| <p><b>foil between pack probe</b></p>  <p>40 x 50 mm with 1000 mm FEP lead</p> | <p>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.</p> <ul style="list-style-type: none"> <li>• response time less than 3 seconds</li> <li>• probe temperature range 0 to 100 °C</li> </ul>                                                                       | 170-090 |

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

# Waterproof Temperature Probes

NTC thermistor probes with lumberg connectors

|                                                                                                                                          | order code                                                                                                                                                                                                                                                                                                                                                               |         |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| <p><b>penetration probe</b></p>  <p>Ø3.3 x 130 mm</p> | <p>This waterproof, stainless steel penetration probe 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.</p> <ul style="list-style-type: none"> <li>• response time less than 3 seconds</li> <li>• probe temperature range -40 to 150 °C</li> </ul> | 174-266 |
| <p><b>penetration probe</b></p>  <p>Ø3.3 x 100 mm</p> | <p>This waterproof, stainless steel plug-mounted penetration probe is versatile and strong. Ideal for measuring liquids, semi-solids and granular materials in a wide variety of applications.</p> <ul style="list-style-type: none"> <li>• response time less than 3 seconds</li> <li>• probe temperature range -40 to 150 °C</li> </ul>                                | 172-000 |

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

