THERMADATA® 4 CHANNEL LOGGER

- Four channel type K thermocouple input
- Simultaneously measure four probe temperatures
- Programmable high/low audible alarm
- Wide temperature range -99.9 to 1372 °C

General purpose probe (133-158)

The ThermaData 4 Channel Logger is housed in an ergonomic, ABS case that includes Biomaster Antimicrobial Technology to reduce bacterial growth. An integrated rubber seal ensures complete water resistance and helps reduce the possibility of damage in harsh environments.

The 4 Channel Logger measures temperature over the range of -99.9 to 1372 °C with a 0.1 °C resolution, auto-ranging to 1 °C over the range of 300 to 1372 °C. At programmable intervals the logger will record the temperature, up to a maximum of 64,000 readings (16,000 per channel).

A multi logging feature also allows this instrument to be started and stopped in order to map multiple processes, without downloading the data each time.

Featuring an easy-to-read LCD, the 4 Channel Logger displays temperature, high and low limits, max/min recorded temperatures and volume level. The LCD can either be toggled from T1 & T2 to T3 & T4, or locked, using the DISPLAY / LOCK button.

Programmable audible alarms allows the user to preset high and low temperature limits for any logging process. The alarm can be silenced by pressing MUTE on the front of the instrument.

Each instrument is supplied with a USB C lead, FREE downloadable software and traceable certificate of calibration.

We offer an extensive range of interchangeable type K thermocouple probes for a variety of different applications.

THERMADATA STUDIO SOFTWARE

The ThermaData 4 Channel Logger is connected to a PC via a USB C lead (supplied). By selecting the relevant icon the data can be downloaded and displayed either as a graph, table or summary. The information can then be analysed by zooming in, saving as a Studio File or exporting to other software packages.

IP65 · Biomaster · 2 YEAR GUARANTEE · MADE IN BRITAIN

Specification	ThermaData 4 Channel Logger
Range	-99.9 to 1372 °C
Operating range	-20 to 50°C
Resolution	0.1 °C to 299.9 °C thereafter 1 °C
Accuracy	±0.4 °C ±0.1 % of reading
Memory	64,000 (4x 16,000)
Sample rate	1 second to 255 minutes
Battery	3 x 1.5 volt AAA
Battery life	1 year (1 minute sample rate)
Sensor type	Type K thermocouple
Display	Custom LCD
Dimensions	32 x 71 x 142 mm
Weight	230 grams
FREE traceable certificate of calibration included	

Order code	Description	£ each
291-401	ThermaData 4 Channel Logger	210.00
830-258	Protective silicone boot - black	14.00
The ThermaData 4 Channel Logger is exclusive of probes		

For pricing or any further information, please contact Omni Instruments Ltd.

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Website: www.omniinstruments.co.uk

		Order code
BINDER PROBE  HIGH ACCURACY HIGH ACCURACY 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. • Response time less than 3 seconds • Probe temperature range -75 to 250 °C	123-240 323-240 (coiled lead)
AIR OR GAS PROBE  HIGH ACCURACY HIGH ACCURACY 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. • Response time less than 1 second • Probe temperature range -75 to 250 °C	123-300 323-300 (coiled lead)
T-SHAPED AIR OR GAS PROBE  HIGH ACCURACY HIGH ACCURACY Ø4.5 x 90 mm	This stainless steel T-shaped, shielded fast response air or gas probe is ideal for measuring the temperature in HVAC duct work, offices, storage areas and similar. • Response time less than 1 second • Probe temperature range -75 to 250 °C	123-310 323-310 (coiled lead)
RIBBON SURFACE PROBE  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. • Response time less than 1 second • Probe temperature range -75 to 250 °C	123-030 123-032 (right-angled)
RIBBON SURFACE PROBE  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. • Response time less than 1 second • Probe temperature range -75 to 250 °C	123-044 123-052 (right-angled)
WATERPROOF SURFACE PROBE  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. • Response time less than 1 second • Probe temperature range -75 to 250 °C	123-046 323-046 (coiled lead)
SURFACE PROBE  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. • Response time less than 1 second • Probe temperature range -100 to 600 °C	123-000 323-000 (coiled lead)
HEAVY-DUTY SURFACE PROBE  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 • Response time less than 1 second • Probe temperature range -100 to 1000 °C	123-020* 123-028* (right-angled)
PENETRATION PROBE  HIGH ACCURACY HIGH ACCURACY 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. • Response time less than 2 seconds • Probe temperature range -75 to 250 °C	123-162 123-158 (reduced tip)

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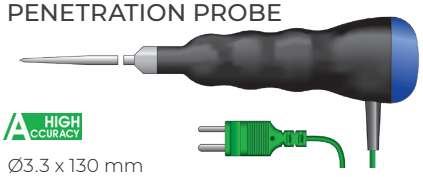
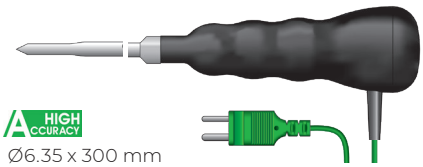
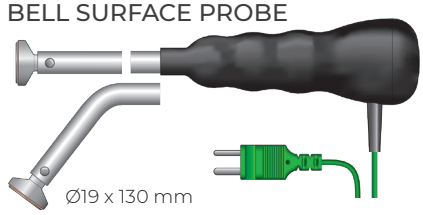
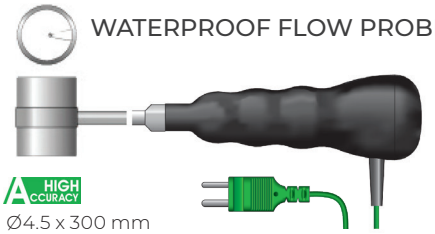
		Order code
PENETRATION PROBE  HIGH ACCURACY Ø3.3 x 130 mm	This stainless steel, waterproof penetration probe is strong, versatile and incorporates a heavy-duty handle with a colour-coded end cap. Suitable for liquids and semi-solids. ● Response time less than 3 seconds ● Probe temperature range -75 to 250 °C	143-161 143-162 143-164 143-165 143-166 143-167
REDUCED TIP PROBE  HIGH ACCURACY Ø6.35 x 300 mm	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	143-120 343-120 (coiled lead)
BELL SURFACE PROBE  Ø19 x 130 mm	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)
WATERPROOF FLOW PROBE  HIGH ACCURACY Ø4.5 x 300 mm	These fast response, waterproof T-Shaped flow probes, are suitable for measuring air or water flow temperatures in a variety of applications. The shielded exposed junction thermocouple ensures a fast and accurate response to changes in temperature. ● Response time less than 1 second ● Probe temperature range -75 to 250 °C	143-310 343-310 (coiled lead)

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

		Order code
INTERCHANGEABLE PROBE HANDLE  Ø25 x 151 mm	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  HIGH ACCURACY HIGH ACCURACY Ø3.3 x 80 or 120 mm	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 (120 mm) 133-153 (120 mm reduced tip) 133-154 (80 mm reduced tip)
SURFACE PROBE  Ø8 x 120 mm	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)

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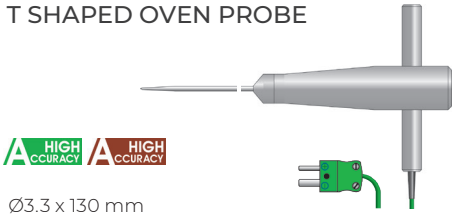
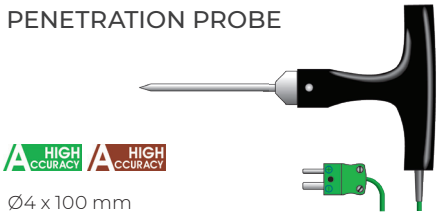
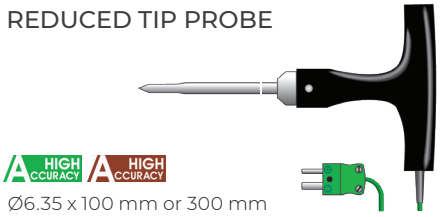
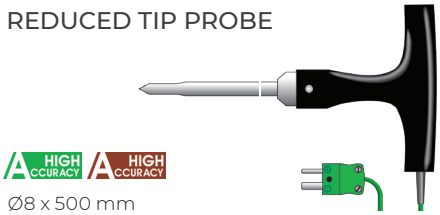
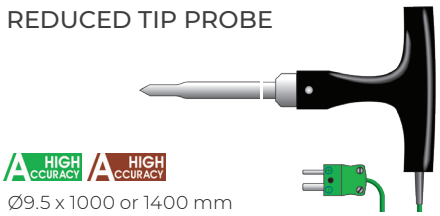
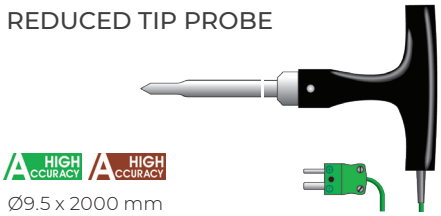
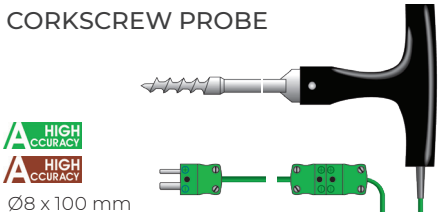
		Order code
T SHAPED OVEN PROBE  Ø3.3 x 130 mm	This strong oven penetration probe incorporates a stainless steel T-shaped handle, and a two metre PTFE high temperature lead. Ideal for continuous monitoring applications or where a nylon or polypropylene handle cannot be used. • Response time less than 2 seconds • Probe temperature range -75 to 250 °C	133-174
PENETRATION PROBE  Ø4 x 100 mm	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  Ø6.35 x 100 mm or 300 mm	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 (100 mm) 133-120 (300 mm)
REDUCED TIP PROBE  Ø8 x 500 mm	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  Ø9.5 x 1000 or 1400 mm	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)
REDUCED TIP PROBE  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  Ø8 x 100 mm	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

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		Order code
PTFE WIRE PROBE  HIGH ACCURACY HIGH ACCURACY 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. 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  HIGH ACCURACY HIGH ACCURACY 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. 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  HIGH ACCURACY HIGH ACCURACY 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. 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  HIGH ACCURACY HIGH ACCURACY 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. • Response time less than 1 second • Probe temperature range -60 to 600 °C	133-387 (1000 mm) 133-389 (2000 mm)
ATTACHMENT PADS  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. • For use over the range of -50 to 200 °C	600-485
PROBE EXTENSION LEAD - STRAIGHT  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 (1000 mm) 627-733 (2000 mm)
PROBE EXTENSION LEAD - COILED  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 (1000 mm) 627-741 (2000 mm)
MINIATURE PLUG OR SOCKET  MPK 16 x 19 mm MSK 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 (plug) 421-501 (socket)

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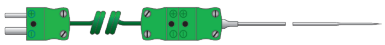
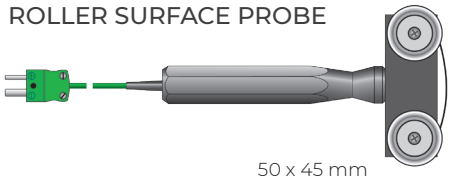
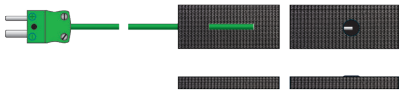
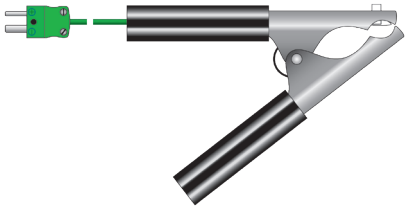
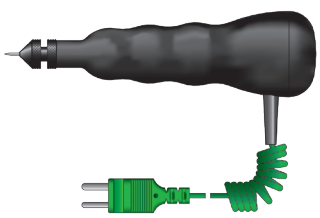
		Order code
MINIATURE PROBE  HIGH ACCURACY HIGH ACCURACY Ø1.4 mm reducing to Ø1 mm tip x 50 mm	This miniature, stainless steel needle probe is supplied with a one or two metre PTFE lead. Ideal for measuring small semi-solid items and sous vide cooking. • Response time less than 1 second • Probe temperature range -75 to 250 °C	133-180 (1m lead) 133-182 (2m lead)
FAST RESPONSE MEAT PROBE  HIGH ACCURACY HIGH ACCURACY 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. • Response time less than 2 seconds • Probe temperature range -75 to 250 °C	133-150
BURGER PROBE  HIGH ACCURACY HIGH ACCURACY Ø4.5 x 45 x 160 mm (6 or 12 mm tip)	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 (6 mm tip) 123-746 (12 mm tip)
MAGNET SURFACE PROBE  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. • Response time less than 30 seconds • Probe temperature range -20 to 80 °C	133-017
ROLLER SURFACE PROBE  50 x 45 mm	These roller surface probes have either stainless 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  20 x 500 mm	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  HIGH ACCURACY 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. Type K Only. • Response time less than 2 seconds • Probe temperature range -75 to 250 °C	343-100

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GENERAL PURPOSE PROBE  Ø3.3 x 100 mm	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  9 x 100 x 100 mm	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  Ø4.8 x 100 mm	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  Ø6 x 100 mm	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  Ø6.35 x 150 mm	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  Ø1.5 x 180, 500 or 1000 mm	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  Ø3 x 180, 500 or 1000 mm	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

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 contact all our sales office.

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