

PORTABLE PROBE THERMOMETERS TH SERIES



Features

- A range of professional, compact, lightweight thermometers and probes provide a choice of specifications to suit many different applications
- Ideal for use in the Food manufacturing, HACCP compliance, Pharmaceutical & Laboratory measurements
- Wide range of standard probes available
- Robust metal case suitable for hostile environments
- Hygienically smooth, splashproof surface
- Low power with a backlit display
- Auto switch off to conserve battery life
- Typical battery life more than 350 hours
- TH102KC for use with K-Type Thermocouples & Probes
- TH103TC for use with T-Type Thermocouples & Probes
- **TH103TC/probes supplied, as standard, with a UKAS-traceable calibration certificate**

A range of compact, robust thermometers & probes suitable for any environment

The Eurolec TH Series of handheld thermometers are ideal for a wide range of demanding, hostile environments where the metal case provides additional protection and where an accurate temperature measurement instrument is needed.

The TH102KC and the TH103TC can be used with a wide range of plug-in probes which are available as either K-Type or T-Type to suit the TH102KC and the TH103TC respectively.

These interchangeable probes allow for a wide range of temperature measurements, covering from -150°C to over 800°C dependent upon probe and instrument type.

Wherever there is a need for a simple-to-use but accurate probe or thermocouple-based thermometer, the TH Series offers a solution.

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Standard Probe Selection for the TH102KC & TH103TC

The TH102KC and TH103TC instruments are supplied, as standard, without a probe.

A range of suitable probes are available to support the instruments and these are shown in the table below.

Please note that type 'K' probes should be used with TH102KC thermometer and type 'T' probes with TH103TC

Customised probes available on request.



MODEL	TYPE	RANGE	DESCRIPTION	SIZE
TP101T	T Type Thermocouple	-150°C to +400°C	Mineral Insulated Semi Flexible Probe	1.5mm x 250mm
TP101K	K Type Thermocouple	-150°C to +850°C	Mineral Insulated Semi Flexible Probe	1.5mm x 250mm
TP102T	T Type Thermocouple	-75°C to +250°C	Needle Type Insertion Probe	1.6mm x 100mm
TP102K	K Type Thermocouple	-75°C to +250°C	Needle Type Insertion Probe	1.6mm x 100mm
TP103T	T Type Thermocouple	-75°C to +400°C	General Purpose Insertion Probe	3.3mm x 120mm
TP103K	K Type Thermocouple	-75°C to +600°C	General Purpose Insertion Probe	3.3mm x 120mm
TP104T-S	T Type Thermocouple	-75°C to +400°C	Heavy Duty Insertion Probe	6mm x 250mm
TP104K-S	K Type Thermocouple	-75°C to +700°C	Heavy Duty Insertion Probe	6mm x 250mm
TP105T	T Type Thermocouple	-75°C to +350°C	Probe With Exposed Sensor For Air Temperatures	2.95mm x 100mm
TP105K	K Type Thermocouple	-75°C to +350°C	Probe With Exposed Sensor For Air Temperatures	2.95mm x 100mm
TP106T	T Type Thermocouple	-75°C to +400°C	Surface Probe with spring loaded tip	4.76mm x 120mm
TP106K	K Type Thermocouple	-75°C to +800°C	Surface Probe with spring loaded tip	4.76mm x 120mm
TP107T	T Type Thermocouple	-75°C to +400°C	Surface Probe (Right Angled)	4.76mm x 150mm
TP107K	K Type Thermocouple	-75°C to +800°C	Surface Probe (Right Angled)	4.76mm x 150mm
TP108T	T Type Thermocouple	-75°C to +250°C	Type T Thermocouple Very Fast Response PTFE Insulated Probe	
TP108K	K Type Thermocouple	-75°C to +250°C	Type K Thermocouple Very Fast Response PTFE Insulated Probe	
TP109T	T Type Thermocouple	-60°C to +350°C	Type T Thermocouple Very Fast Response Fibre Glass Insulated Probe	
TP109K	K Type Thermocouple	-60°C to +350°C	Type K Thermocouple Very Fast Response Fibre Glass Insulated Probe	
TP100T	Extension Cable	N/A	Eurolec 1m T Thermocouple extension leads with miniature IEC connectors.	1m
TP100K	Extension Cable	N/A	Eurolec 1m K Thermocouple extension leads with miniature IEC connectors.	1m

Ordering Information

Instrument ordering

The TH Series Thermometers are supplied, as standard, without a probe.

A range of standard measurement probes are available for use with the TH Series as shown on page 2.

Use the product codes in the table below to select the appropriate instrument and the table on page 2 to select the appropriate probe/thermocouple.

For example, to order a TH103TC with the TP103T General Purpose Insertion Probe, use the products codes TH103TC + TP103T

Measurement Probes

Please note that type 'K' probes should be used with TH102KC thermometer and type 'T' probes with the TH103TC

Customised probes available on request.

Accessories

A range of accessories are available to support and enhance your PC Temp Thermometers including:

- Protective Rubber Boot Code THFB
- Carrying Case Code THCC
- Carrying Pouch with belt clip Code THCCS
- Wall Bracket Code THWB

Technical Information

TH SERIES THERMOMETERS

SPECIFICATION	TH102KC	TH103TC
Instrument Type	Handheld Probe Thermometer with Metal Case	Handheld Probe Thermometer with Metal Case
Range	-200°C to +1200°C	-200°C to +400°C
Measurement Range	Dependent upon the attached probe/thermocouple	Dependent upon the attached probe/thermocouple
Resolution	0.1°C from -199.9°C to +199.9°C 1°C otherwise	0.1°C from -199.9°C to +199.9°C 1°C otherwise
Thermometer Accuracy	±0.2°C ±1 digit (-50°C to +200°C) ±1°C ±1 digit elsewhere	±0.2°C ±1 digit (-50°C to +200°C) ±1°C ±1 digit elsewhere
Sensor Type	K Type Thermocouple	T Type Thermocouple
Power Supply	9V DC PP3/LR61 Battery	9V DC PP3/LR61 Battery
Operating Temperature	+5°C to +40°C	+5°C to +40°C
Dimensions (without probe)	137mm x 69mm x 27mm	137mm x 69mm x 27mm

Eurolec Instrumentation Ltd are continuously developing and improving their products and as such the company reserve the right to amend specifications without notice and supply products which differ from those described.

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