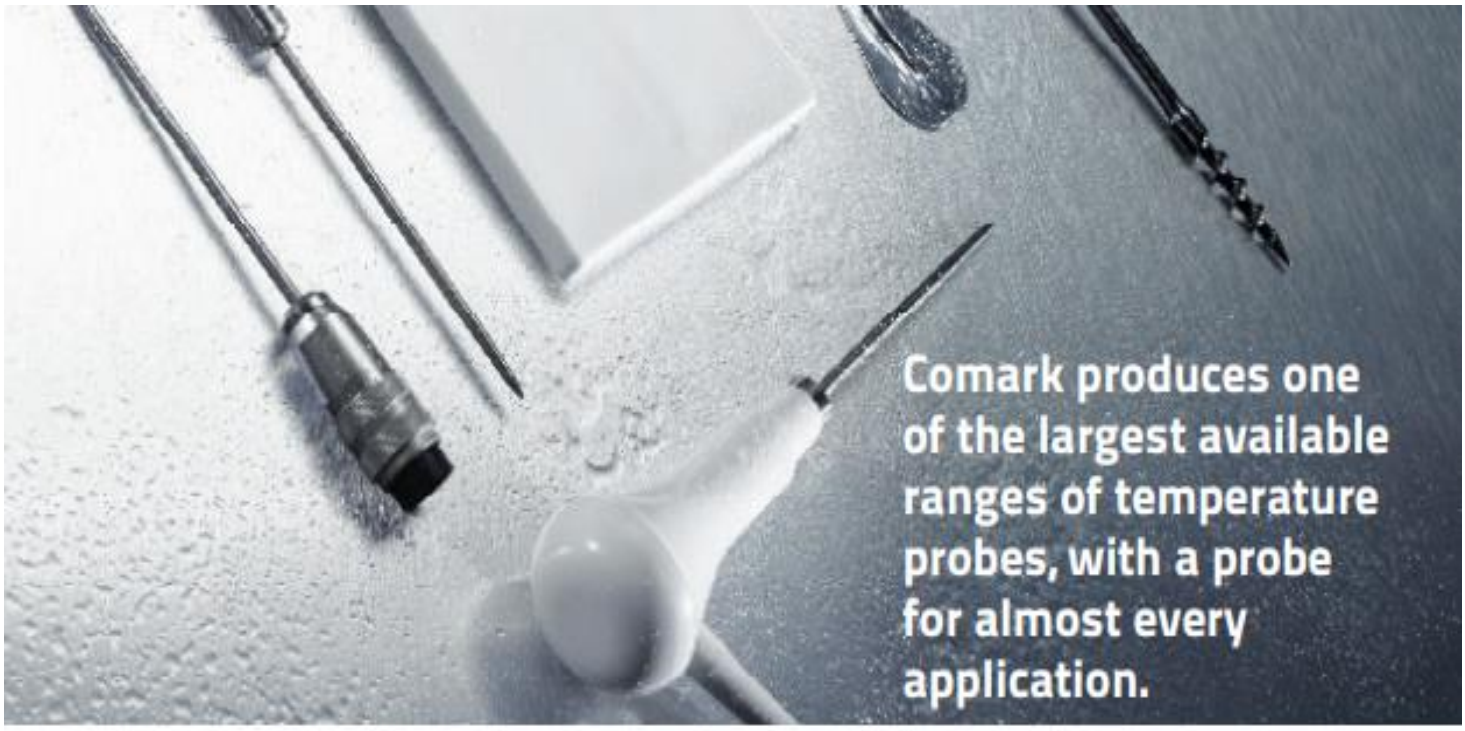


Comark can certify temperature probes, individually or, as recommended, with an instrument to record system accuracy.

Certificates of calibration are supplied through the Comark in-house UKAS accredited temperature calibration laboratory and the in-house NPL traceable laboratory.

The Comark Service Team or your local distributor can offer advice on probes and certification and can provide detailed quotations.

Comark Order Codes

Probe Category	Sensor Type			Connector Type
P: Penetration S: Surface A: Air I: Immersion	K: Type K thermocouple T: Type T thermocouple X: Thermistor (PST) P: PT100			M: Sub-miniature L: Lumberg B: Bipole
P	K	2	4	M
Example			Sequential number code	

Connector Types

M: Sub-Miniature



L: Lumberg



B: Bipole



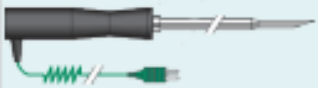


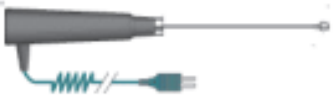
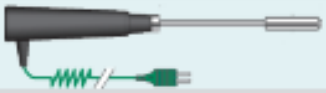
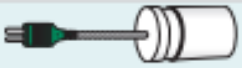
Probe leads

Comark probe leads are matched to the intended applications for the probe. The materials used are:

PVC – PVC coiled leads provide ease of use in ambient temperatures of up to +70°C.
FEP and PTFE – These materials are especially suited to food probes and can be used in sub-zero temperatures. Steel braided PTFE leads provide greater strength.
Fibreglass (FG) – Fibreglass insulated leads are used for special application probes where the lead could be subjected to very high ambient temperatures of up to +400°C.

Temperature Probes

Penetration Probes	Sensor	Connector	Temp Range °C	Response Time (secs) †	Stem Length (mm)	Stem Dia (mm)	Lead Length (m)	Lead Material	Name
	K	M	–50°C to +250°C	2.0	100	3.3	1.0	PVC	PK24M
	General purpose probe.								
	K	M	–50°C to +250°C	10.0	500	9.5/ 6.0	1.0	PVC	PK32M
	Heavy duty tarmac probe.								

Surface Probes	Sensor	Connector	Temp Range °C	Response Time (secs) †	Stem Length (mm)	Stem Dia (mm)	Lead Length (m)	Lead Material	Name
	K	M	–50°C to +250°C	0.2	100	7.5	1.0	PVC	SK21M
	Fast response general purpose probe.								
	K	M	–50°C to +650°C	0.4	100	10.0	1.0	PVC	SK24M
	Heavy duty probe general purpose probe - suitable for high temperatures.								
	K	M	–50°C to +650°C	0.4	150/36	10.0	1.0	PVC	SK25M
	Heavy duty probe general purpose probe - suitable for high temperatures.								
	K	M	–50°C to +100°C	10.0	-	-	2.5	PVC	SK29M*
	Pipe probe for heating, ventilating and air-conditioning applications with 500mm Velcro strip.								
	K	M	–50°C to +100°C	5.0	-	-	1.0	PVC	SK35M*
	Pipe clamp probe for use in heating, ventilating and air-conditioning applications for pipes 15 to 38mm diameter.								
	K	M	up to +260°C	0.4	-	-	1.0	PTFE	SK40M*
	Griddle probe.								

†The time constant is the time taken for the probe to reach 63% of the value of the temperature change. Multiply x 3 for the time taken to achieve 95% and by 5 for 99%. * Not suitable for intrinsically Safe applications. Thermocouples: Tolerances relate to BS EN60584-2 (1993), Class A.

Air Probes



Sensor	Connector	Temp Range °C	Response Time (secs) †	Stem Length (mm)	Stem Dia (mm)	Lead Length (m)	Lead Material	Name
K	M	–100°C to +250°C	0.5	-	-	1.0	PTFE	AK28M
T	M	–100°C to +250°C	2.0	-	-	1.0	PTFE	AT27M
K	M	–100°C to +250°C	0.5	-	-	5.0	PTFE	AK29M
K	M	–100°C to +250°C	0.5	-	-	10.0	PTFE	AK31M
K	M	–100°C to +400°C	0.5	-	-	1.0	FG	AK33M

Flexible thermocouple probes.



Sensor	Connector	Temp Range °C	Response Time (secs) †	Stem Length (mm)	Stem Dia (mm)	Lead Length (m)	Lead Material	Name
K	M	–100°C to +1100°C	3.0	700	6.0	1.0	PVC	AK24M
K	M	–100°C to +1100°C	3.0	1000	6.0	1.0	PVC	AK25M

Semi-flexible high temperature air probes

Immersion Probes



Sensor	Connector	Temp Range °C	Response Time (secs) †	Stem Length (mm)	Stem Dia (mm)	Lead Length (m)	Lead Material	Name
K	M	–100°C to +850°C	0.4	100	1.5	1.0	PVC	IK21M
K	M	–100°C to +850°C	0.4	300	1.5	1.0	PVC	IK23M
K	M	–100°C to +1100°C	1.0	100	3.0	1.0	PVC	IK24M

Probes with type K and T thermocouple sensors also have mineral insulated, semi-flexible stems.

†The time constant is the time taken for the probe to reach 63% of the value of the temperature change. Multiply x 3 for the time taken to achieve 95% and by 5 for 99%.

