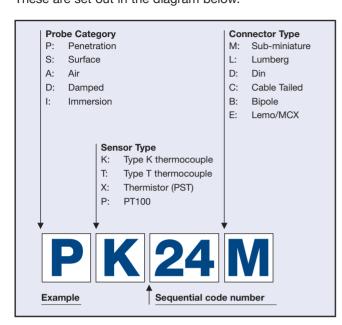
CHOOSING YOUR COMARK PROBES

PROBE IDENTIFICATION CODES

Comark has a simple order code for each probe which identifies the key characteristics. These are set out in the diagram below.



PROBE CATEGORY

Choose a probe suitable for the material to be measured e.g. a low mass flexible air probe would be a better choice for fast, accurate air temperature measurement than a penetration probe which would take too long to stabilise.

Also the application should be considered:-

Solid and semi-solid materials - use surface probes for surface measurement. Surface probes include angled head models for restricted areas, patch probes for permanent measurement points and velcro or clamp probes for pipes.

Use penetration or immersion probes for internal temperatures. Where holes have to be drilled into solids, use a thermocouple or thermistor probe inserted to a depth 6 times the probe diameter or a PT100 probe inserted to a depth 10 times its diameter.

Use a thermal transfer compound for improved accuracy and response time (the speed at which the probe adjusts from its current temperature to that of the measured materials).

Liquids - use immersion or some penetration probes, but check the possible corrosive effects of the liquid on the sensor first. Agitate the liquid for faster response.

Air and other Gases - check the possible corrosive effects of the gas on the sensor first.

Response times are affected by heat transfer from or into the sensor and the smaller the sensor area of the probe, the faster the response time.

Response is also affected by air/gas movement.

Food simulant and damped sensor probes have a large mass surrounding the sensor to slow down response times, essential in food applications where fridge or freezer doors being opened or defrost cycles can trigger temperature alarms.

SENSOR TYPE

Choose a sensor best suited to your needs for measurement range, accuracy and response time. Some accuracy levels are set by legislation, such as the United Kingdom Food Safety Act, or by local Quality Assurance standards.

The sensor must also match the instrument. Comark standard probes use three basic sensor types:-

1. Thermocouples - two wires of dissimilar metals joined together at the measurement tip (the hot junction) and joined at the other end to the input terminals of the instrument (the cold junction).

Comark thermocouple material is monitored to exceed the international standards (BS4937:1983, BS EN60584-2:1993 and other related standards). Two main thermocouple types are used:-

Type K Thermocouple - Ni-Cr/Ni-AL- a general purpose thermocouple with a wide measurement range and a fast response to temperature changes.

Type T thermocouple - Cu/Cu-Ni - particularly suited to low and sub-zero temperatures such as those found in autoclaves and health applications.

Also has a fast response to temperature changes and high accuracy, useful for food applications.

2. Thermistor (PST) - used for precision measurements using a semi-conductor sensor.

Provides high accuracy over a narrow temperature range and good performance over long lead runs. Suitable for food and cold store applications.

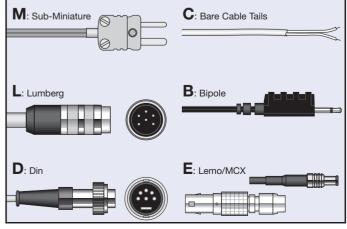
3. Platinum Resistance Thermometers - the electrical resistance of these sensors changes with temperature and this is measured to give the most accurate temperature measurements.

Comark uses PT100 sensors with a resistance of 100 ohms at 0°C which meet the tolerances set out in BS EN60751 (1996), Class A.

PROBE CONNECTOR TYPES

Choose a probe to match the connector type of the instrument. A range of adaptors is available for use where a non matching probe has to be specified.

Connector details for all Comark and Kane-May instruments and adaptors are given in the compatibility charts.



OTHER ESSENTIALS FOR PROBE SELECTION

Check that the probe measurement range matches your instrument specification and your application.

Check that the probe tip design is suitable for your application e.g. do not use an air probe with an exposed sensor to measure internal temperatures of solids. The main tip designs are shown opposite and the numbers are listed in the probe selection charts:-

Check the probe lead material. Comark temperature probe leads are matched to the intended applications for the probe. Materials used are:-

PVC - PVC coiled leads provide ease of use in ambient temperatures of up to 70°C and are specified for standard and heavy duty industrial probes.

FEP and PTFE - These leads are especially suited to food probes and can be used in sub-zero temperatures. Steel braided PTFE leads give greater strength.

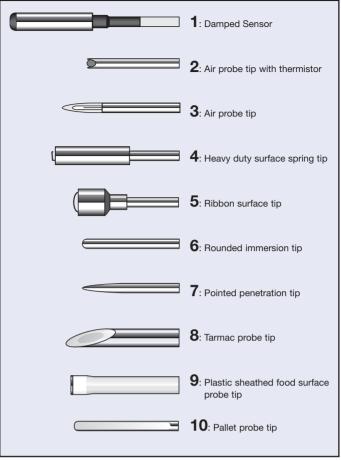
Fibre Glass (FG) - Fibre glass insulated leads are used for special application probes where the lead could be subjected to very high ambient temperatures of up to 600°C.

Check Intrinsic Safety requirements - some applications and industries are covered by the Intrinsic Safety Regulations including fuel refining, chemical production and mining.

Most Comark probes can be used with Intrinsically Safe instruments, but those not suitable are marked * in the probe selection charts.

Always check for Intrinsic Safety requirements before selecting probes.

PROBE TIPS



PROBE ACCESSORIES

Description	Sensor type	Code
Sub miniature thermocouple socket (in pack of 5)	Туре К	B25
Sub miniature thermocouple plug (in pack of 5)	Туре К	B26
Standard thermocouple plug	Туре К	CSPK
Standard thermocouple socket	Туре К	CSSK
Standard socket for panel mounting	Туре К	CSSK/P
Type B thermocouple sub-miniature plug for micro-volt input on M8600/K module	Туре В	CMPC
Lumberg plug	-	4187
3-way screwblock connector for M8600/X module	-	16720
50m reel of PVC probe extension lead	Туре К	B27
2m extension lead with sub-miniature connectors	Туре К	EK21M
10m extension lead with sub-miniature connectors	Туре К	EK22M
20m extension lead with sub-miniature connectors	Thermistor (PST)	EX21M
40m extension lead with sub-miniature connectors	Thermistor (PST)	EX22M
60m extension lead with sub-miniature connectors	Thermistor (PST)	EX23M
80m extension lead with sub-miniature connectors	Thermistor (PST)	EX24M
10 way switch box with 350mm lead to enable up to 10 probes to be measured by a single thermometer, see page 8	Туре К	LK22M
1m coiled connecting lead for PT29L corkscrew probe, see page 5	Туре Т	ADP34
1m coiled connecting lead for PT29M corkscrew probe, see page 5	Туре Т	ADP35
1.5mm stainless steel olive gland adaptor*	-	B22
3mm stainless steel olive gland adaptor*	-	B23
6mm stainless steel olive gland adaptor*	-	B24
Thermal transfer compound	-	CSG12
Pack of 10 Tempatch indicators. Available in ranges: 37 to 65°C	-	CTMP/A
71 to 110°C	-	CTMP/B
116 to 154°C	-	CTMP/C
160 to 199°C	-	CTMP/D
204 to 260°C	-	CTMP/E
Cable ties in pack of 50	-	T50

SPECIAL ORDER PROBE EXTENSION LEADS

Most Comark thermocouple probes can be manufactured to special order with leads in non-standard lengths. Full details can be provided by Comark Customer Support or your local distributor.

*Olive gland adaptors are used as compression sealing joints for probes used in measuring internal temperatures in pipes.

Penetration Probes	Sensor	Connector	Temp Range °C	Response Time (secs) [†]	Stem Length (mm)	Stem Dia (mm)	Lead Length (m)	Lead Material	Probe Tip	Code
	К	M	–50°C to +250°C	2.0	100	3.3	1.0	PVC	7	PK24M
	K	M	-50°C to +250°C	2.0	300	3.3	1.0	PVC	7	PK29M
	К	М	-50°C to +250°C	4.0	100	6.0	1.0	PVC	7	PK26M
	K	М	-50°C to +250°C	4.0	300	6.4/3.3	1.0	PVC	7	PK27M
	T PST	L	-100°C to +250°C -40°C to +150°C	4.0	150 150	6.4/3.3 6.4/3.3	1.0	FEP FEP	7	PT28L PX30L
Standard and heavy duty 6.4 3.3	751 T	M	-40 C to +150 C	2.0	100	3.3	1.0	PVC	7	PT22M
industrial probes.	PT100	L	-200°C to +250°C	8.0	100	3.3	1.0	PVC	7	*PP23L
	Т	М	-100°C to +250°C	0.5	50	1.6	1.0	PVC	7	PT21M
	K	M	-50°C to +250°C	0.5	50	1.6	1.0	PVC	7	PK21M
Short Stem Probe for very fast response.										
	K	М	-50°C to +250°C	1.5	100	2.5	1.0	PVC	7	PK31M
Binder probe for use with "Binder" test plugs for internal measurements in pipes and ducting.										
	PST	L	-40°C to +150°C	5.0	100	3.3	0.7	FEP	7	*PX22L
	PST PST	L	-40°C to +150°C -40°C to +150°C	5.0 5.0	100	3.3 3.3	0.7	FEP FEP	7	*PX23L *PX24L
Food penetration probes with coloured end	PST	L	-40°C to +150°C	5.0	100	3.3	0.7	FEP	7	*PX24L
caps for use with cross contamination prevention colour coding systems. PX22L White,	T	L	-100°C to +250°C	2.0	100	3.3	0.7	PTFE	7	*PT24L
PX23L Red, PX24L Green, PX25L Blue.	Т	L	-100°C to +250°C	2.0	100	3.3	1.0	PVC	7	*PT24L/C
PT24L - Type T sensor food probe with steel braided	PST	М	-40°C to +70°C	5.0	100	3.3	3.0	FEP	7	*PX29M
lead. PT24L/C - Version of PT24L with coiled lead. PX29M - Thermistor probe for use with C8800 monitoring systems.										
	PST T	L	-40°C to +150°C -100°C to +250°C	0.5	100 100	1.6 1.6	0.7	FEP PTFE	7	*PX16L *PT23L
PX16L - Fast response thermistor food probe. PT23L - Fast response Type T food probe with steel braided lead.										
	PST	L	-40°C to +150°C	5.0	100	3.3	3.0	FEP	7	*PX27L
Probe with print start switch for KM1223DTR.										
	К	М	-50°C to +250°C	2.0	100	3.3	2.5	PTFE	7	PK23M
Oven meat probe for checking meat and food	Т	L	-100°C to +250°C	2.0	100	3.3	2.5	PTFE	7	PT26L
temperatures during cooking.										
	T	L	-100°C to +250°C	2.0	100	2.4	-	-	7	*PT25L
Integral plug probe.	PST	L	-40°C to +150°C	5.0	100	3.3	-	-	7	*PX33L
	Т	L	-100°C to +250°C	4.0	140	8.0	1.0	PVC	-	PT29L
	T	M	-100°C to +250°C	4.0	140	8.0	1.0	PVC	-	PT29L PT29M
The semi-solid materials. Complete with detachable lead for ease of use, ADP34 lead for PT29L, ADP35 lead for PT29M. See page 4.										
	PST	E	-40°C to +100°C	5.0	-	-	1.0	PVC	-	*PX31E
Probe for use with C1742, C1744, C1752, C1754 loggers only.										
	PST	В	-40°C to +150°C	5.0	80	3.3	0.4	PVC	7	*PX21B
KM220/KM221 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%. Thermocouples:- Tolerances relate to BS EN60584-2 (1993), Class A. *Not suitable for Intrinsically Safe applications.

Surface Probes	Sensor	Connector	Temp Range °C	Response Time	Stem Length	Stem Dia	-	Lead Material	Probe Tip	Code
All drawing dimensions shown in mm.				(secs)†	(mm)	(mm)	(m)			
General purpose probe.	К	М	-50°C to +250°C	0.2	100	7.5	1.0	PVC	5	SK21M
70 30	K	м	–50°C to +250°C	0.2	70/30	7.5	1.0	PVC	5	SK22M
General purpose probe.		IVI	-50 0 10 +250 0	0.2	10/30	1.5	1.0	FVG	5	SIZZIWI
	K	М	-50°C to +250°C	0.2	70/30	7.5	1.0	PVC	5	SK23M
General purpose probe.										
	К	М	-50°C to +650°C	0.4	100	10.0	1.0	PVC	4	SK24M
Heavy duty probe.										
	K	М	-50°C to +650°C	0.4	150/36	10.0	1.0	PVC	4	SK25M
Heavy duty probe. 36 → 1 1- 10										
B	PST	L	-40°C to +150°C	12.0	100	6.0	0.7	FEP	9	*SX22L
Surface probe for food applications.										
7.5	Т	L	-100°C to +250°C	0.2	100	7.5	0.7	PTFE	5	*ST21L
Ribbon type surface probe with steel braided leads for food applications.										
	Т	L	-100°C to +250°C	0.2	70/30	7.5	0.7	PTFE	5	*ST22L
30 →11→ 7.5 Ribbon type surface probe with steel braided leads										
for food applications.										
200 →	K	M	-50°C to +250°C	4.0	250	8 x 2	1.0	PVC	-	SK38M
Flattened stem 8.0 x 2.0mm section	т Т	M L	-100°C to +250°C -100°C to +250°C	4.0	250 250	8 x 2 8 x 2	1.0 1.0	PVC PVC	-	ST38M ST38L
Heavy duty pallet probes.		_			200	0.12				
Between pack	Т	L	-40°C to +70°C	5.0	-	-	1.0	PTFE	-	*ST23L
45 probes. ST23L and	PST	L	-40°C to +70°C	15.0	-	-	1.0	FEP	-	*SX23L
ST24L with steel	T PST	L	-40°C to +70°C -40°C to +70°C	5.0 15.0	-	-	3.0 3.0	PTFE FEP	-	*ST24L *SX24L
braided leads.	101	L	-+0 0 10 +70 0	13.0	-	-	5.0		-	UN24L
10	K	М	-50°C to +150°C	2.0	-	-	2.0	PTFE	-	*SK27M
Magnetic surface probe.										
Patch probe.	К	М	-50°C to +250°C	0.5	-	-	1.0	PTFE	-	SK32M
25.0	K	М	-50°C to +250°C	0.5	-	-	1.0	PTFE	-	SK31M
	Т	М	-50°C to +250°C	0.5	-	-	1.0	PTFE	-	ST21M
Self adhesive patch probes.										

†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%. Thermocouples:- Tolerances relate to BS EN60584-2 (1993), Class A. *Not suitable for Intrinsically Safe applications.

Surface Probe		Sensor	Connector	Temp Range °C	Response Time (secs) [†]	Stem Length (mm)	Stem Dia (mm)	Lead Length (m)	Lead Material	Probe Tip	Code
or moving including of surfaces. I to 600m/n speed and	be for stationary surfaces cylinders and flat Measures at up nin surface d from 125mm curved to flat	К	Μ	-50°C to +250°C	2.0	148	-	2.0	PVC	-	*SK28M
ventilating	e for heating, and air ng applications m Velcro strap.	К	М	-50°C to +100°C	10.0	-	-	2.5	PVC	-	*SK29M
in heatin air cond applicati	mp probe for use _ ng, ventilating and itioning ions, for pipes mm diameter.	К	Μ	-50°C to +100°C	5.0	-	-	1.0	PVC	-	*SK35M
KM220/KM221 probe.	=	PST	В	-40°C to +150°C	12.0	80	7.5	0.4	PVC	-	*SX21B

Air Probes	Sensor	Connector	Temp Range °C	Response Time (secs) [†]	Stem Length (mm)	Stem Dia (mm)	Lead Length (m)	Lead Material	Probe Tip	Code
	К	М	-100°C to +850°C	0.5	100	3.3	1.0	PVC	3	AK21M
	K	М	-100°C to +850°C	0.5	300	3.3	1.0	PVC	3	AK22M
6.0 3.0	K	М	-100°C to +250°C	0.4	100	3.3	1.0	PVC	3	AK27M
General purpose air probes.	Т	М	-50°C to +250°C	0.4	100	3.3	1.0	PTFE	3	AT21M
AT21M with steel braided lead.	К	М	-100°C to +850°C	1.0	300	6.0/3.0	1.0	PVC	-	AK23M
Semi flexible high temperature air probes.	К	М	–100°C to +1100°C	3.0	700	6.0	1.0	PVC	6	AK24M
	К	М	–100°C to +1100°C	3.0	1000	6.0	1.0	PVC	6	AK25M
E s	PST	L	-40°C to +70°C	10.0	100	3.3	0.7	FEP	2	*AX23L
Rigid air probe.										
	K	М	-100°C to +250°C	0.5	-	-	1.0	PTFE	-	AK28M
	Т	М	-100°C to +250°C	2.0	-	-	1.0	PTFE	-	AT26M
Flexible thermocouples.	Т	М	-100°C to +400°C	2.0	-	-	1.0	FG	-	AT27M
	K	М	-100°C to +250°C	0.5	-	-	5.0	PTFE	-	AK29M
	К	М	-100°C to +250°C	0.5	-	-	10.0	PTFE	-	AK31M
	K	М	-100°C to +250°C	0.5	-	-	25.0	PTFE	-	AK32M
	К	М	-100°C to +400°C	0.5	-	-	1.0	FG	-	AK33M
	Т	L	-100°C to +250°C	0.4	-	-	1.0	PTFE	-	AT26L
→	Т	L	-100°C to +250°C	2.0	-	-	1.0	PTFE	-	*AT22L
Fast response flexible probe with steel braided lead.										
	PST	L	-40°C to +70°C	10	-	-	1.0	FEP	-	*AX24L
	PST	L	-40°C to +70°C	10	-	-	3.0	FEP	-	*AX25L
Flexible probes.	PST	М	-40°C to +70°C	10	-	-	5.0	FEP	-	*AX28M
	PST	М	-40°C to +70°C	10	-	-	10.0	FEP	-	*AX29M
	PST	В	-40°C to +70°C	10	-	-	1.0	FEP	-	*AX22B
99	PST	М	-40°C to +70°C	100	-	-	2.0	FEP	-	*DX29M
	PST	L	-40°C to +70°C	100	-	-	2.0	FEP	-	*DX31L
99	PST	М	-40°C to +70°C	100	-	-	5.0	FEP	-	*DX32M
	PST	М	-40°C to +70°C	100	-	-	10.0	FEP	-	*DX33M
Food simulant probes for long term measurements of food in fridges and freezers.										

†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%. Thermocouples:- Tolerances relate to BS EN60584-2 (1993)), Class A. *Not suitable for Intrinsically Safe applications.

Air Probes	Sensor	Connector	Temp Range °C	Response Time (secs) [†]	Stem Length (mm)	Stem Dia (mm)	Lead Length (m)	Lead Material	Probe Tip	Code
	PST	L	–40°C to +70°C	30.0	-	8.0	2.0	FEP	1	*DX28L
	PST	М	-40°C to +70°C	30.0	-	8.0	2.0	FEP	1	*DX43M
Damped sensor probes to slow down response times	PST	М	-40°C to +70°C	30.0	-	8.0	5.0	FEP	1	*DX34M
in applications where air temperatures change faster	PST	М	–40°C to +70°C	30.0	-	8.0	10.0	FEP	1	*DX35M
than the product temperatures, eg. food in fridges and freezers.	PST	М	–40°C to +70°C	30.0	-	8.0	20.0	FEP	1	*DX36M
11002015.	PST	М	–40°C to +70°C	30.0	-	8.0	30.0	FEP	1	*DX37M
	PST	М	-40°C to +70°C	30.0	-	8.0	40.0	FEP	1	*DX38M
	PST	М	-40°C to +70°C	30.0	-	8.0	60.0	FEP	1	*DX39M
	PST	М	-40°C to +70°C	30.0	-	8.0	80.0	FEP	1	*DX41M
	PST	М	-40°C to +70°C	30.0	-	8.0	100.0	FEP	1	*DX42M
	PST	С	-40°C to +70°C	30.0	-	8.0	10.0	FEP	1	*DX44C
	PST	С	-40°C to +70°C	30.0	-	8.0	15.0	FEP	1	*DX45C
	PST	E	-40°C to +70°C	10.0	-	-	2	PVC	-	*AX31E
Air probe for use with C1742, C1744, C1752, C1754 loggers only.										
	Т	L	-100°C to +250°C	0.4	75	3.3	-	-	3	*AT25L
Integral plug probe.										
	PST	В	–40°C to +70°C	10	75	3.3	0.4	PVC	2	AX21B
KM220/KM221 probe.										
	PST	Е	–40°C to +40°C	10.0	-	-	1.0	PVC	-	*DX46E
	PST	Е	-40°C to +40°C	10.0	-	-	3.0	PVC	-	*DX47E
	PST	Е	-40°C to +40°C	10.0	-	-	6.0	PVC	-	*DX48E
	PST	E	-40°C to +40°C	10.0	-	-	16.0	PVC	-	*DX51E
Probes for C1702 and C1704 loggers.	PST	E	-20°C to +100°C	10.0	-	-	3.0	PTFE	-	*DX52E
DX52E for C1712 logger only.										

Immersion Probes	Sensor	Connector	Temp Range °C	Response Time (secs) [†]	Stem Length (mm)	Stem Dia (mm)	Lead Length (m)	Lead Material	Probe Tip	Code
	К	М	-100°C to +850°C	0.4	100	1.5	1.0	PVC	6	IK21M
	К	М	-100°C to +850°C	0.4	300	1.5	1.0	PVC	6	IK23M
	К	М	-100°C to +1100°C	1.0	300	3.0	1.0	PVC	6	IK24M
	К	М	-100°C to +1100°C	1.0	100	3.0	1.0	PVC	6	IK22M
Probes with type K and T thermocouple sensors	Т	М	-200°C to +400°C	1.0	300	3.0	1.0	PVC	6	IT22M
also have mineral insulated, semi-flexible stems.	Т	М	-200°C to +400°C	0.4	300	1.5	1.0	PVC	6	IT24M
	PT100	L	-200°C to +500°C	8.0	200	4.0	1.0	PVC	6	*IP22L
	PT100	L	-200°C to +500°C	15.0	300	6.0	1.0	PVC	6	*IP23L
	К	М	–100°C to +1100°C	12.0	1000	12.5/8.0	1.0	PVC	6	*IK25M
Heavy duty melt probe. 12.5					8.0	— D				
Deep fat probe for food applications.		L	-200°C to +400°C	1.0	500	3.0	0.7	PTFE	6	*IT21L
	К	М	-	-	-	-	0.35	PVC	-	LK22M

†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%. Thermocouples:- Tolerances relate to BS EN60584-2 (1993), Class A. *Not suitable for Intrinsically Safe applications.

10 way switchbox, see page 4

INSTRUMENT COMPATIBILITY Check your instrument connectors before selecting probes.

Instrument	Sensor Type	Connector
COMARK		
C550	Thermistor (PST)	С
C1700 Series	Thermistor (PST)	E (DX46E to DX52E only)
C1740/C1750 Series	Thermistor (PST)	E (PX31E and AX31E only)
C8510	Type K or Thermistor (PST)	Μ
C8600	Type K,N,T,J,R,S,E,B, PT100, Thermistor (PST)	M/L/C
C8800	Thermistor (PST)	С
C9001/C90061S/C9008	Type K,N,T,J,R,S	Μ
C9003/C9007	Туре К	Μ
C9009	Туре Т	Μ
C9011	PT100	L
C9050	Туре К,Ј,Т	Μ
C9091	Thermistor (PST)	L
C9092	Thermistor (PST) and Type T	L
N9001/N9008	Type K, N, T, J, R, S	Μ
N9003	Туре К	Μ
N9009	Туре Т	Μ
N9092	Thermistor (PST) and Type T	L
N1001	Type K, N, T, J, R, S, E, B	Μ
N1092	Thermistor (PST) and Type T	L
KM20REF	PT100	Integral Probe
KM21	Thermistor (PST)	L
KM22	Thermistor (PST) and Type T	L
KM25	Туре Т	L
KM26	Туре Т	Μ
KM42/KM43/KM44/KM450S/KM450IS/KM450MQ	Туре К	Μ
KM45	Туре К,Ј,Т	Μ
KM220/KM221	Thermistor (PST)	В
KM250	Туре К	Integral Probe
KM330/KM340	Туре К	Μ
KM1203	Thermistor (PST)	Integral Probe
KM1223DTR	Thermistor (PST) and Type T	L
KM1225	Thermistor (PST)	Μ
KM1241/KM1441 with T41 module/KM1242/KM1420	Туре К	Μ
KM1250	Type K or T	Μ
KM1448	Thermistor (PST)	Μ
KM4003	Туре К	Μ
KM8004	Туре К	Μ

ADAPTOR COMPATIBILITY

Adaptor	Sensor Type	Connec	ctions
		From	То
ADP2 connects food simulant and damped sensor			
probes with sub-miniature connectors to KM1241/ KM1441	Thermistor (PST)	М	phone
ADP4 connects food simulant and damped sensor			
probes with sub-miniature connectors to KM20/KM21/KM22	Thermistor (PST)	М	L
ADP5 connects food probes and test caps with Lumberg connectors			
to KM1225/KM1448/C8510PST	Thermistor (PST)	L	М
ADP7 connects 2 food probes with sub-miniature connectors to KM1441	Thermistor (PST)	М	phone
ADP8 connects food probes and test caps with Lumberg connectors			
to C9090 and C8500	Thermistor (PST)	L	D
ADP9 connects old food probes with Din connectors to C9091 and C9092	Thermistor (PST)	D	L
ADP10 connects PT100 probes with Lumberg connectors to C9010	PT100	L	D
ADP11 connects old PT100 probes with Din connectors to C9011	PT100	D	L
ADP12 Type T compensating cable, connects C9092 to C9050	Туре Т	L	М

COMARK SPECIALIST PROBES AND SENSORS

Although the Comark range of handheld probes is the most comprehensive available, there are specialist temperature measurement applications where non-standard probes are needed.

The Comark probe design and production team have many years experience in solving measurement problems for individual customers and can offer expert advice.

The wide range of specialist probe solutions available from Comark includes modified standard probes, special industrial probe assemblies and a bespoke design and build service which is described on the facing page. All Comark manufactured probes utilise the finest components and are produced in line with the Comark ISO 9001 quality system.

SPECIALIST MODIFICATIONS TO STANDARD PROBES

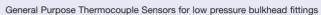
Almost every one of the extensive range of Comark standard probes can be developed or modified to customer requirements. This can be a simple matter of adding a longer lead or a different stem length or it can encompass an application led redesign.

The Comark milk dip probe is a typical example, developed from a type T thermocouple immersion probe to check milk in large tanks during storage or transportation, and now available in three versions. These and other specially developed probes have proved popular enough to warrant volume production and are shown in the chart below.

SPECIALIST INDUSTRIAL PROBES

Comark can supply a broad range of industrial probe assemblies and accessories suitable for permanent installation into all types of process and production machinery. These can be fitted with sensors to specific customer specifications, including thermocouple types K, J, T, R, S, N and E (others available on request), platinum resistance thermometers of all types and thermistors. The range includes:-

General Purpose Thermocouple Sensors for liquid or gas measurement





General Purpose Thermocouple Sensors with plug or socket fittings

(B)



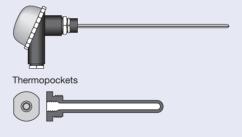
General Purpose 4 Wire Resistance Thermometer



General Purpose Thermocouple Washer Type



Heavy Duty Thermocouples and Resistance Thermometers



Modified Standard Probes	Sensor	Connector	Temp Range °C	Response Time (secs) [†]	Stem Length (mm)	Stem Dia (mm)	Lead Length (m)	Lead Material	Probe Tip	Code
Heavy duty tarmac probe.	К	М	–50°C to +250°C	10.0	500	9.5/6.0	2.0	PVC	8	PK32M
↓				Ļ						
9.5				† 6.0						
Bow surface probe for larger surface contact area.	К	М	–50°C to +500°C	2.0	250	70	1.0	PVC	-	*SK26M
	K	М	-30°C to +120°C	0.5	115/30	13	1.0	PVC	-	AK26M
Shrouded air probe for use in air currents.										
	K	М	-100°C to +150°C	2.0	120	-	20.0	PTFE	-	IK26M
Weighted sinker probe for deep tanks and containers.										
	Т	М	-40°C to +150°C	2.0	90	-	2.0	PTFE	-	IT23M
Weighted mills die probe for deins hygione andiastione	Т	L	-40°C to +150°C	2.0	90	-	2.0	PTFE	-	IT23L
Weighted milk dip probe for dairy hygiene applications, also suitable for other liquid dip applications	PST	L	-40°C to +150°C	5.0	90	-	2.0	FEP	-	IX23L

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