

THERMOCOUPLE & RESISTANCE THERMOMETER SENSORS & PROBES

A wide range of configurations for industrial and laboratory applications



 **LABFACILITY**
TEMPERATURE & PROCESS TECHNOLOGY

www.labfacility.co.uk

Choosing the sensor type:

Thermocouples are less expensive than PRT sensors, more versatile, less accurate, more rugged, more sensitive, have a wider operating range, are tip sensitive and can be smaller. Extension cabling is more expensive. Various calibrations are available for different applications.

PRT assemblies are much more accurate and stable, permit greater resolution of measurement but over a more limited range, are stem sensitive, larger and more expensive. Extension cabling is inexpensive copper wire.

Remember the type of sensor chosen must suit the associated instrumentation.

- Thermocouple & platinum resistance thermometers in a wide range of configurations & dimensions
- Ranges from -200°C to 1700°C
- Mineral insulated, flexible and fabricated, rigid probes
- Fine wire thermocouples
- Hand held probes
- Plastics, surface & air sensors
- Furnace thermocouples
- Calibrated sensors
- General purpose and application specific designs
- Installation fittings
- Head mounting temperature transmitters
- Pt100 & Pt1000 detectors
- ISO 9001 registered
- Full compliance with IEC specifications
- Thermocouple calibration types J,K,T,N,E,R & S available



**COLOUR CODES
THERMOCOUPLE CONNECTORS, EXTENSION
AND COMPENSATING WIRES AND CABLES**

TYPE	CONDUCTORS +/-	INSULATION COLOUR CODES Extension & Compensating Leads			CABLE CODE
		BRITISH BS1843: 1952	AMERICAN ANSI/MC 96.1	GERMAN DIN 43713 / 43714	
E	NICKEL CHROMIUM/CONSTANTAN (Nickel Chromium/Copper Nickel, Chromel/Constantan, T1/Advance, NiCr/Constantan)				EX
J	IRON*/CONSTANTAN (Iron/Copper Nickel, Fe/Konst Iron/Advance, Fe/Constantan I/C)				JX
K	NICKEL CHROMIUM/NICKEL ALUMINIUM* (NiCr/NA, Chromel/Alumel, C/A, T1/T2, NiCr/Ni, NiCr/NiAl)				KX
N	NICROSIL/NISIL				NX NC
T	COPPER/CONSTANTAN (Copper/Copper Nickel, Cu/Con, Copper/Advance)				TX
Vx	COPPER/CONSTANTAN (LOW NICKEL) (Cu/Constantan) Compensating for K (Cu/Constantan)				KCB
U	COPPER/COPPER NICKEL Compensating for Platinum 10% or 13% Rhodium/Platinum (Codes S & R respectively) (Copper/Cupronic Cu/CuNi, Copper/No. 11 Alloy)				RCA SCA
* Magnetic, () Alternative & Trade Name		FOR THERMOCOUPLE CONNECTORS body colours are similar to outer sheath colours		FOR THERMOCOUPLE CONNECTORS body colours are similar to outer sheath colours	

The British Standard Colour Code for Thermocouple Cables, BS1843: 1952 is superseded by BS4937 PART 30 1993 (=IEC 584-3 1989)

Additional identification as to whether a thermocouple cable type is extension or compensating is indicated in the example which follows; however, please note that a letter A or B after the C for Compensating refers to the Cable Temperature Range in accordance with the table of Tolerance Values set out with this standard.

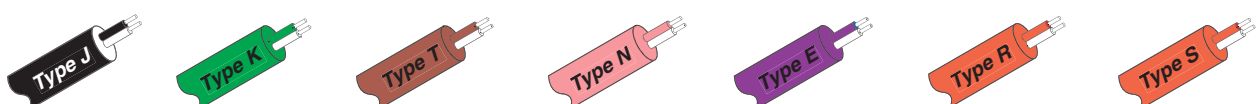
- K - X - 1 = K EXTENSION CLASS 1**
- K - CA - 2 = K COMPENSATION CLASS 2**

All technical information published in this brochure is for guidance and not necessarily definitive. All thermocouple items comply with IEC 584 colour codes, cable and thermoelement tolerances unless otherwise stated. All platinum resistance thermometer items comply with IEC 751 tolerance and termination colour codes. All dimensions stated are nominal. Product availability & specifications may be subject to change. E & OE

To receive our regular email newsletter, please register your details on our website

CONTENTS

- Mineral Insulated, Flexible Sheath Thermocouples 3
- Welded Tip, Fine Wire Thermocouples 5
- Thermocouples for specific Applications including
Surface Air & Plastics Machinery Sensors 6
- Hand Held Thermocouple Probes 7
- Furnace Thermocouples 7
- Mineral Insulated, Flexible Sheath Platinum
Resistance Thermometers 8
- Fabricated, Rigid Sheath Platinum Resistance
Thermometers 8
- Platinum Resistance Thermometers for
specific Applications 10
- Hand Held Platinum Resistance Thermometers 10
- Platinum Resistance Thermometer
Elements (Sensing Resistors) 10
- Custom Sensors 12
- Probe Certification 12
- Installation Fittings for Temperature Sensors 13
- Head Mounting Temperature Transmitters 13
- Other Labfacility Products 15



MINERAL INSULATED THERMOCOUPLES

Mineral insulated thermocouples are for use up to 1300°C depending on the configuration. They are rugged, steel sheathed probes with flexible sheaths allowing bending or forming. They offer long life (depending on use) and can be used in high pressure and vibration applications. Stainless steel sheaths provide optimum flexibility Inconel 600 offers better corrosion resistance in many applications.

Alternative cable types available.

MINERAL INSULATED THERMOCOUPLES WITH TAILS. STYLE MD



- Mineral insulated thermocouple type K
- Choice of stainless steel 310 or Inconel 600 sheath
- M8 x 1.0mm threaded pot (200°C)
- Sensor temperature range -100 to 1100°C
- Tails 100mm, PFA insulated twin twisted, 7/0.2mm

ORDER CODES
Type K stainless steel sheath

Probe dia (mm)	Probe length (mm)	Code
0.5	150	MD-ISK-S05-150-P5
0.5	250	MD-ISK-S05-250-P5
0.5	500	MD-ISK-S05-500-P5
0.5	1000	MD-ISK-S05-1000-P5
1.0	150	MD-ISK-S10-150-P5
1.0	250	MD-ISK-S10-250-P5
1.0	500	MD-ISK-S10-500-P5
1.0	1000	MD-ISK-S10-1000-P5
1.5	150	MD-ISK-S15-150-P5
1.5	250	MD-ISK-S15-250-P5
1.5	500	MD-ISK-S15-500-P5
1.5	1000	MD-ISK-S15-1000-P5
3.0	150	MD-ISK-S30-150-P5
3.0	250	MD-ISK-S30-250-P5
3.0	500	MD-ISK-S30-500-P5
3.0	1000	MD-ISK-S30-1000-P5
3.0	2000	MD-ISK-S30-2000-P5
6.0	250	MD-ISK-S60-250-P5
6.0	500	MD-ISK-S60-500-P5
6.0	1000	MD-ISK-S60-1000-P5
6.0	2000	MD-ISK-S60-2000-P5

ORDER CODES
Inconel Sheath

Probe dia (mm)	Probe length (mm)	Code
1.0	500	MD-ISK-110-500-P5
1.0	1000	MD-ISK-110-1000-P5
1.5	500	MD-ISK-115-500-P5
1.5	1000	MD-ISK-115-1000-P5
3.0	500	MD-ISK-130-500-P5
3.0	1000	MD-ISK-130-1000-P5
3.0	2000	MD-ISK-130-2000-P5
6.0	1000	MD-ISK-160-1000-P5
6.0	2000	MD-ISK-160-2000-P5

MINERAL INSULATED THERMOCOUPLES WITH EXTENSION LEAD & PLAIN POT SEAL. STYLE MA



Alternatives made to order – details on request

www.labfacility.co.uk



- Mineral insulated thermocouple type J or K
- Plain, stainless steel pot (200°C)
- Stainless steel sheath, type K 310, type J 321
- Type K -100 to 1100°C sensor range
- Type J -100 to 760°C sensor range
- 2m PFA insulated lead, 7/0.2mm flat pair

ORDER CODES
Type K

Probe dia (mm)	Probe length (mm)	Code
0.5	150	MA-ISK-S05-150-P1-2.0-C2-T
0.5	250	MA-ISK-S05-250-P1-2.0-C2-T
1.0	150	MA-ISK-S10-150-P1-2.0-C2-T
1.0	250	MA-ISK-S10-250-P1-2.0-C2-T
1.5	150	MA-ISK-S15-150-P1-2.0-C2-T
1.5	250	MA-ISK-S15-250-P1-2.0-C2-T
3.0	150	MA-ISK-S30-150-P1-2.0-C2-T
3.0	250	MA-ISK-S30-250-P1-2.0-C2-T
6.0	150	MA-ISK-S60-150-P1-2.0-C2-T
6.0	250	MA-ISK-S60-250-P1-2.0-C2-T

ORDER CODES
Type J

Probe dia (mm)	Probe length (mm)	Code
1.5	150	MA-ISJ-S15-150-P1-2.0-C2-T
1.5	250	MA-ISJ-S15-250-P1-2.0-C2-T
3.0	150	MA-ISJ-S30-150-P1-2.0-C2-T
3.0	250	MA-ISJ-S30-250-P1-2.0-C2-T
6.0	150	MA-ISJ-S60-150-P1-2.0-C2-T
6.0	250	MA-ISJ-S60-250-P1-2.0-C2-T

MINERAL INSULATED THERMOCOUPLES WITH EXTENSION LEAD & THREADED POT SEAL. STYLE MA



- Mineral insulated thermocouple type K or N
- Type N Nicrosil sheath, type K stainless steel sheath 310
- M8 x 1.0mm threaded pot seal (200°C)
- Type K -100 to 1100°C sensor range
- Type N -230 to 1300°C sensor range
- 2m PFA insulated lead, 7/0.2mm flat pair

ORDER CODES
Type K

Probe dia (mm)	Probe length (mm)	Code
1.0	300	MA-ISK-S10-300-P5-2.0-C2-T
1.5	300	MA-ISK-S15-300-P5-2.0-C2-T
3.0	300	MA-ISK-S30-300-P5-2.0-C2-T
6.0	300	MA-ISK-S60-300-P5-2.0-C2-T
1.0	500	MA-ISK-S10-500-P5-2.0-C2-T
1.5	500	MA-ISK-S15-500-P5-2.0-C2-T
3.0	500	MA-ISK-S30-500-P5-2.0-C2-T
6.0	500	MA-ISK-S60-500-P5-2.0-C2-T

ORDER CODES
Type N

Probe dia (mm)	Probe length (mm)	Code
1.0	300	MA-ISN-N10-300-P5-2.0-C2-T
1.5	300	MA-ISN-N15-300-P5-2.0-C2-T
3.0	300	MA-ISN-N30-300-P5-2.0-C2-T
6.0	300	MA-ISN-N60-300-P5-2.0-C2-T
1.0	500	MA-ISN-N10-500-P5-2.0-C2-T
1.5	500	MA-ISN-N15-500-P5-2.0-C2-T
3.0	500	MA-ISN-N30-500-P5-2.0-C2-T
6.0	500	MA-ISN-N60-500-P5-2.0-C2-T

DUPLIX MINERAL INSULATED THERMOCOUPLES WITH EXTENSION LEAD & PLAIN POT SEAL. STYLE MA

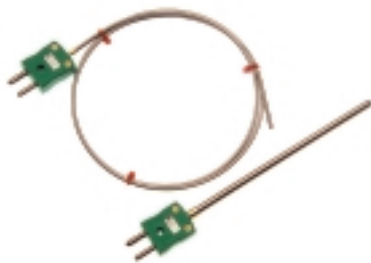


ORDER CODES
Type K

Dia (mm)	Length (mm)	Code
3.0	150	MA-IDK-S30-150-P1-2.0-C2-T
3.0	250	MA-IDK-S30-250-P1-2.0-C2-T
6.0	150	MA-IDK-S60-150-P1-2.0-C2-T
6.0	250	MA-IDK-S60-250-P1-2.0-C2-T

- 2 independent thermocouples in single sheath
- Mineral insulated thermocouples type K
- Stainless steel sheath 310
- Plain, stainless steel pot (200°C)
- Sensor temperature range -100 to 1100°C
- 2m PFA insulated lead, 4 core 7/0.2mm

MINERAL INSULATED THERMOCOUPLES WITH STANDARD PLUG. STYLE MB



ORDER CODES
Type K

Dia (mm)	Length (mm)	Code
1.5	150	MB-ISK-S15-150-SP
1.5	250	MB-ISK-S15-250-SP
3.0	150	MB-ISK-S30-150-SP
3.0	250	MB-ISK-S30-250-SP
6.0	150	MB-ISK-S60-150-SP
6.0	250	MB-ISK-S60-250-SP

- Mineral insulated thermocouples, type K
- Quick, simple connection for easy installation
- Standard plug termination (220°C)
- Stainless steel sheath 310
- Sensor temperature range -100 to 1100°C

MINERAL INSULATED THERMOCOUPLES WITH MINIATURE PLUG. STYLE MB



ORDER CODES
Type K

Dia (mm)	Length (mm)	Code
0.5	150	MB-ISK-S05-150-MP
0.5	250	MB-ISK-S05-250-MP
1.0	150	MB-ISK-S10-150-MP
1.0	250	MB-ISK-S10-250-MP
1.5	150	MB-ISK-S15-150-MP
1.5	250	MB-ISK-S15-250-MP
3.0	150	MB-ISK-S30-150-MP
3.0	250	MB-ISK-S30-250-MP

- Mineral insulated thermocouples, type K
- Quick, simple connection for easy installation
- Miniature plug termination (220°C)
- Stainless steel sheath 310
- Sensor temperature range -100 to 1100°C

Alternatives made to order – details on request

INDUSTRIAL MINERAL INSULATED THERMOCOUPLE WITH TERMINAL HEAD, EXTENSION & REPLACEABLE INSERT. STYLE MC/ME



ORDER CODES
Type K complete assembly:

Probe length	Code
150mm	010559TD-A
250mm	010559TD-B
500mm	010559TD-C

Replacement inserts to suit:

Length	Code
150mm	ME-ISK-S60-275-DPB
250mm	ME-ISK-S60-375-DPB
500mm	ME-ISK-S60-625-DPB

- Mineral insulated thermocouple, type K
- Aluminium IP67 terminal head, M20 x 1.5mm cable entry
- Sensor temperature range -100°C to 800°C
- Stainless steel sheath & extension
- Extension 12.5mm diameter x 75mm
- ½" BSP (P) process connection
- Replaceable spring loaded insert

INDUSTRIAL MINERAL INSULATED THERMOCOUPLE WITH TERMINAL HEAD. STYLE MC



ORDER CODES

Type K	100mm probe	MC-ISK-S60-100-KNE
Type K	200mm probe	MC-ISK-S60-200-KNE
Type K	400mm probe	MC-ISK-S60-400-KNE
Type K	600mm probe	MC-ISK-S60-600-KNE
Type J	200mm probe	MC-ISJ-S60-200-KNE
Type J	400mm probe	MC-ISJ-S60-400-KNE
Type J	600mm probe	MC-ISJ-S60-600-KNE

- Mineral insulated thermocouples, type J or K
- Stainless steel sheath, type K 310, type J 321, 6mm diameter
- Aluminium IP67 terminal head, M20 x 1.5mm cable entry
- Sensor temperature range -100°C to 1100°C (K) -100°C to 760°C (J)
- Optional Transmitter-in-head, see page 14
- Thermowells & fittings available, see page 13

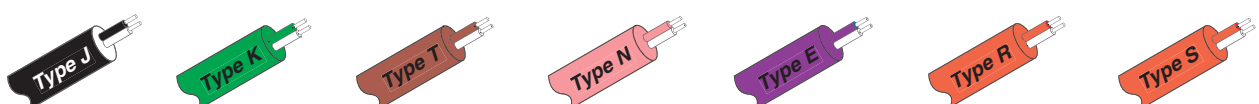
INDUSTRIAL MINERAL INSULATED THERMOCOUPLE WITH TERMINAL HEAD & PROCESS CONNECTION. STYLE MC



ORDER CODES

Probe length	Code
150mm	MC-ISK-S60-150-KNE-PR1
250mm	MC-ISK-S60-250-KNE-PR1
500mm	MC-ISK-S60-500-KNE-PR1

- Mineral insulated thermocouple, type K
- Aluminium IP67 terminal head, M20 x 1.5mm cable entry
- ½" BSP (P) process connection, stainless steel
- Stainless steel sheath 310, 6mm diameter
- Sensor temperature range -100°C to 1100°C
- Optional transmitter-in-head, see page 14
- Thermowells available – details on request



WELDED TIP FINE WIRE THERMOCOUPLES

WELDED TIP THERMOCOUPLES, GLASSFIBRE INSULATED. STYLE Z3



ORDER CODES
K Z3-K-F/G-1/0.315-2.0-T
T Z3-T-F/G-1/0.315-2.0-T
J Z3-J-F/G-1/0.315-2.0-T
FOR PACKS OF FIVE,
ADD x5 TO CODE
Other thermocouple types available,
details on request.

- Fast response, exposed junction
- Thermocouple types J,K & T
- Glassfibre insulated wires, silicone varnished
- Flat pair, 1/0.315mm, 2m long
- Rated -60°C to 350°C
- Ideal for test & development applications

FINE WIRE WELDED TIP THERMOCOUPLES, PFA INSULATED. STYLE Z2



ORDER CODES
K Z2-K-PFA-TT-1/0.08-1.0-T
T Z2-T-PFA-TT-1/0.08-1.0-T
FOR PACKS OF FIVE,
ADD x5 TO CODE
Other thermocouple types available,
details on request.

- Fast response, exposed junction
- Thermocouple type K&T
- PFA insulated wires, 1m singles 1/0.08mm, class 1
- Rated -75°C to 250°C
- IEC colours supplied (ANSI shown)
- Ideal for test & development applications

WELDED TIP THERMOCOUPLES, PFA INSULATED. STYLE Z2

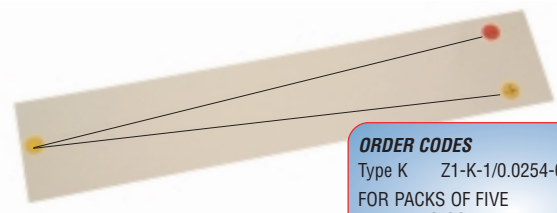


ORDER CODES
K Z2-K-PFA-TT-1/0.2-2.0-T
T Z2-T-PFA-TT-1/0.2-2.0-T
J Z2-J-PFA-TT-1/0.2-2.0-T
FOR PACKS OF FIVE,
ADD x5 TO CODE
Other thermocouple types available,
details on request.

- Fast response, exposed junction
- Thermocouple types J,K & T
- PFA insulated wires
- Twin twist 1/0.2mm, Class 1, 2m long
- Rated -75°C to 250°C
- Ideal for test & development applications

Alternatives made to order – details on request

VERY FINE WELDED TIP THERMOCOUPLES, BARE WIRE. STYLE Z1



ORDER CODES
Type K Z1-K-1/0.0254-0.2-T
FOR PACKS OF FIVE
ADD x5 TO CODE
Other thermocouple types available
details on request.

- Optimum sensitivity, very responsive
- Exposed junction
- Thermocouple type K
- Bare wires 1/0.0254mm x 200mm
- Ideal for minimally invasive temperature sensing

WELDED TIP THERMOCOUPLES WITH MINIATURE PLUGS & CHOICE OF LEAD. STYLE Z2 & Z3



ORDER CODES
Fitted plug PFA:
Type J Z2-J-PFA-TT-1/0.2-2.0-MP
Type K Z2-K-PFA-TT-1/0.2-2.0-MP
Type T Z2-T-PFA-TT-1/0.2-2.0-MP
Fitted plug Glassfibre:
Type J Z3-J-F/G-1/0.315-2.0-MP
Type K Z3-K-F/G-1/0.315-2.0-MP
Type N Z3-N-F/G-1/0.315-2.0-MP
“Moulded-on” plug PFA
Type J Z2-J-PFA-TT-1/0.2-2.0-MMP
Type K Z2-K-PFA-TT-1/0.2-2.0-MMP
Type T Z2-T-PFA-TT-1/0.2-2.0-MMP
FOR PACKS OF FIVE,
ADD x5 TO CODE
Other thermocouple types available,
details on request

- Choice of fitted (220°C) or “moulded-on” miniature plug (100°C)
- Fast response, exposed junction
- Thermocouple types J,K,T & N
- Choice of PFA insulated wires 2m, twin twist 1/0.2mm, Class 1 or Glassfibre, flat pair 1/0.315mm
- Rated -75°C to 250°C, PFA (-60°C to 350°C glassfibre)
- Ideal for test & development applications

CABLE TIDY THERMOCOUPLE WITH FITTED MINIATURE PLUG



- A complete, precision fine wire, high sensitivity thermocouple with a fitted miniature connector
- Quick and easy integral storage of the thermocouple
- Type K & T thermocouples, 1 & 2m lengths
- Class 1 wire for high accuracy
- PFA insulated wire, 0.2 & 0.315mm conductors
- Rated 220°C continuous
- Ideal & convenient for scientific and industrial test & measurement

Details on application



COPPER DISC, FINE WIRE THERMOCOUPLE, PFA INSULATED

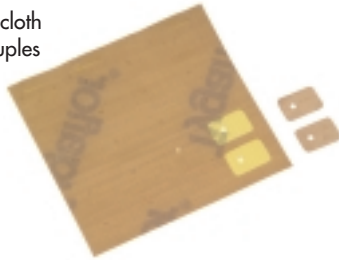


ORDER CODES
K DISC-K-PFA-TT-1/0.2-2.0-T
J DISC-J-PFA-TT-1/0.2-2.0-T
FOR PACKS OF FIVE
ADD x 5 TO CODE
Other thermocouple types available,
details on request

- Copper disc 6.35mm diameter x 0.3mm thick
- Thermocouples type J & K
- PFA insulated wires 2m, twin twist 1/0.2mm, class 1
- Rated 0°C to 200°C
- Adhesive kapton strip 13x18mm supplied x 5

THERMOPADS

- Self-adhesive pads in PTFE glass cloth for locating welded tip thermocouples
- -50°C to 200°C
- Packs of 20 pads
- Pad 13x18mm



ORDER CODES
Thermopads PE-021

THERMOCOUPLES FOR SPECIFIC APPLICATIONS

MAGNETIC STRIP THERMOCOUPLE. STYLE FMS



ORDER CODES
K FMS-K-PFA-TT-1/0.315-2.0-MP

- Type K thermocouple in a flexible magnetic strip for use on ferro-magnetic surfaces
- Temperature range -50 to 120°C
- 2m PFA twisted pair insulated lead, 1/0.315mm
- Strip 50 x 25 x 1mm

BUTTON MAGNET THERMOCOUPLE. STYLE BMS

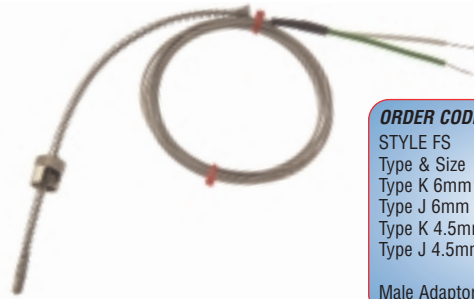


ORDER CODES
BMS-K-PFA-TT-7/0.2-2-MP

- Type K thermocouple in a powerful magnet
- Grounded measuring junction
- Temperature range 0°C to 250°C
- 2m PFA twisted pair insulated lead 7/0.2mm
- Magnet 12.5mm diameter x 10mm

PLASTICS & GENERAL USE

ADJUSTABLE BAYONET FITTING THERMOCOUPLE. STYLE FS



ORDER CODES
STYLE FS
Type & Size
Type K 6mm FS-GSK-6.0-2.0-C4-T
Type J 6mm FS-GSJ-6.0-2.0-C4-T
Type K 4.5mm FS-GSK-4.5-2.0-C4-T
Type J 4.5mm FS-GSJ-4.5-2.0-C4-T
Male Adaptor CA-400

- A type J or K thermocouple with adjustable insertion depth
- 4.5mm or 6.0mm diameter tip
- 170mm spring with adjustable fixing cap
- Grounded tip for fast response
- Rated 350°C
- 2m Glassfibre, stainless steel braided lead, 7/0.2mm
- Male adaptor available 1/8" BSP thread, see page 13

WASHER THERMOCOUPLE. STYLE FW



ORDER CODES
Type
J FW-J-2.0-C4-T
K FW-K-2.0-C4-T

- A type J or K thermocouple housed in a washer eyelet
- Grounded tip for fast response
- Rated 350°C
- Washer with 6mm clearance hole
- 2m glassfibre steel braided extension lead, 7/0.2mm

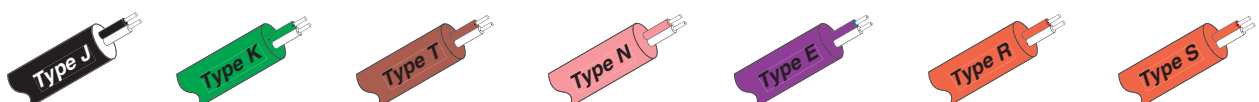
MELT THERMOCOUPLE. STYLE FM



ORDER CODES
Type & Length
J, 76mm FM-J-U-76-5
J, 152mm FM-J-U-152-5

- Type J melt bolt sensors for plastics machinery
- Robust construction to withstand high pressure and temperatures
- Rated 450°C (sensor), 220°C (connector). Insulated junction
- Suits wide range of extruders and moulders
- 310 stainless steel: UNF 20 thread. 76 or 152mm bolt length
- Sheath; immersion depth 5mm, diameter 3mm

Alternatives made to order – details on request



NOZZLE THERMOCOUPLE. STYLE FN



ORDER CODES
J FN-J-M-2.0-C4-T
K FN-K-M-2.0-C4-T

- A type J or K thermocouple housed in a threaded bolt
- Grounded tip for fast response
- Adjustable insertion via free running nut
- M6 x 1mm threaded stainless steel bolt
- Rated 350°C
- 2m glassfibre stainless steel braided extension lead, 7/0.2mm

LEAF THERMOCOUPLE. STYLE FL



ORDER CODES
J FL-J-2.0-C4-T
K FL-K-2.0-C4-T

- A type J or K sensor mounted on a stainless steel shim
- Grounded tip for fast response
- Rated 350°C
- 2m glassfibre stainless steel braided extension cable, 7/0.2mm
- Stainless steel shim 25mm long x 13mm wide

PATCH SURFACE THERMOCOUPLE. STYLE SRS



ORDER CODES
K SRS-K-PFA-TT-1/0.2-2.0-T

- Type K thermocouple in a moulded silicone rubber patch
- Dimensions 40 x 13mm
- Self-adhesive, aluminium foil backing
- 2m PFA twin twisted lead 1/0.2mm
- Resistant to many oils and chemicals

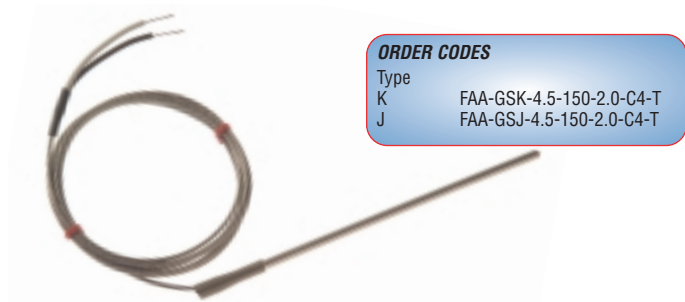
PIPE SURFACE THERMOCOUPLE. STYLE FP



- Fits pipe diameters 13mm to 55mm (4 sizes)
- A type K stainless steel pipe clamp sensor with adjustable diameter
- Grounded tip for fast response
- Rated 350°C
- 2m glassfibre stainless steel braided extension lead, 7/0.2mm

ORDER CODES
Type & Size
K, 13-20mm FP-K-13-2.0-C4-T
K, 20-30mm FP-K-20-2.0-C4-T
K, 30-40mm FP-K-30-2.0-C4-T
K, 40-55mm FP-K-40-2.0-C4-T

HEAVY DUTY RIGID PROBE. STYLE FA



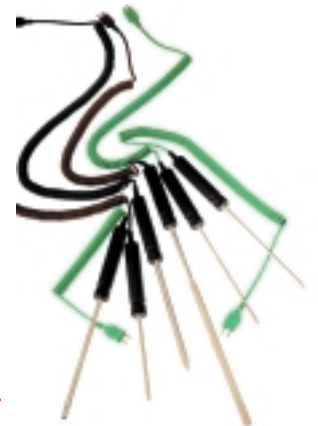
ORDER CODES
Type
K FAA-GSK-4.5-150-2.0-C4-T
J FAA-GSJ-4.5-150-2.0-C4-T

- Type J or K rugged, immersion thermocouple
- Probe 4.5mm diameter x 150mm long
- 2m glassfibre, stainless steel braided lead, 7/0.2mm
- Sensor temperature range -60°C to 350°C
- Grounded junction for fast response

HAND HELD THERMOCOUPLE PROBES

A range of hand held probes provides alternative handle and sheath configurations for a wide variety of applications.

- A choice of handle designs
- Coiled lead or straight lead options
- Miniature plug termination
- Penetration, air & surface tip designs
- Use with any digital thermometer



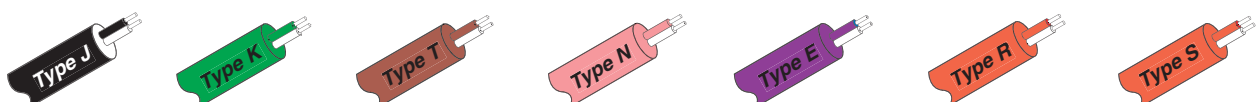
FURNACE THERMOCOUPLES

Labfacility offers a comprehensive range of base and rare metal thermocouples for high temperature applications including furnaces.

- Standard configurations or custom made
 - Types K,N,R,S & B
 - Temperature ratings up to 1750°C
 - Wide range of sheath materials including stainless steel and Alumina
 - Single and dual sheathed versions for optimum element protection
- Details on application



Alternatives made to order – details on request



MINERAL INSULATED, FLEXIBLE SHEATH RESISTANCE THERMOMETERS

Mineral Insulated Resistance Thermometers are for use up to 500°C depending on the configuration. They are rugged, steel sheathed probes with flexible sheaths allowing bending or forming. They offer long life (depending on use) are resistant to vibration and can be used in high pressure applications.

Alternative cable types available

4 wire thermometer can be connected as 4,3 or 2 wire; 3 wire can be connected as 3 or 2 wire

MINERAL INSULATED Pt100 PROBE WITH EXTENSION LEAD. STYLE MIRA



ORDER CODES		
Dia (mm)	length (mm)	Code
3.0	150	MIRAA-S4B-30-150-PI-2.0-C2-T
3.0	250	MIRAA-S4B-30-250-PI-2.0-C2-T
6.0	150	MIRAA-S4B-60-150-PI-2.0-C2-T
6.0	250	MIRAA-S4B-60-250-PI-2.0-C2-T

- High temperature, rugged flexible Pt100 probe
- Pt100 Class B, 4-wire connection
- Sensor Temperature rating -100 to 500°C
- 2m PFA insulated screened lead, 7/0.2mm, 4 core
- Stainless steel sheath

DUPLEX MINERAL INSULATED Pt100 PROBE WITH EXTENSION LEAD. STYLE MIRA



ORDER CODES		
Dia (mm)	length (mm)	Code
6.0	150	MIRAA-D3B-60-150-PI-2.0-C2-T
6.0	250	MIRAA-D3B-60-250-PI-2.0-C2-T

- High temperature, rugged, flexible Pt100 probe
- 2 independent Pt100 sensors in single sheath
- 2 x Pt100, Class B, 3 wire connection
- Sensor temperature range -100 to 500°C
- 2m PTFE insulated, screened lead, 6 core, 7/0.2mm
- Stainless steel sheath

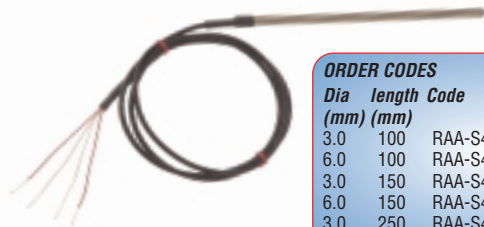
FABRICATED, RIGID SHEATH RESISTANCE THERMOMETERS

Fabricated or general purpose resistance thermometers are for use up to 350°C. The rigid, steel probes and alternative sensor configurations suit many applications.

Alternative cable types available.

4 wire thermometer can be connected as 4,3 or 2 wire; 3 wire can be connected as 3 or 2 wire

Pt100 PROBE WITH EXTENSION LEAD. STYLE RA



ORDER CODES		
Dia (mm)	length (mm)	Code
3.0	100	RAA-S4B-30-100-NP-2.0-C2-T
6.0	100	RAA-S4B-60-100-NP-2.0-C2-T
3.0	150	RAA-S4B-30-150-NP-2.0-C2-T
6.0	150	RAA-S4B-60-150-NP-2.0-C2-T
3.0	250	RAA-S4B-30-250-NP-2.0-C2-T

- Accurate, general purpose temperature sensor
- Pt100, Class B, 4 wire connection
- Stainless steel probe
- Sensor Temperature range -50 to 250°C
- 2m PFA insulated screened lead, 7/0.2mm for 6.0mm probe
- 2m PFA insulated screened lead, 7/0.1mm for 3.0mm probe

- A heavy duty industrial probe with a tough, silicone rubber insulated lead
- Pt100, Class B, 4 wire
- Stainless steel rigid sheath
- 6mm diameter, 50mm and 100mm lengths
- 2m, 4 core 7/0.2mm silicone rubber insulated lead
- Sensor temperature range -50°C to 200°C

Pt100 PRECISION PROBES. STYLE RA



ORDER CODES			
Max temperature	dia (mm)	length (mm)	Code
250°C	6.0	250	L250
450°C	6.0	350	H450

- High accuracy, close tolerance Pt100 sensors
- Suitable as reference probes
- Pt100 1/5DIN tolerance element, 4 wire connection
- Accuracy better than ±0.6°C at 0°C
- 2m PTFE insulated, screened lead, 7/0.2mm
- Sensor temperature range -50 to 250°C
- Alternative 450°C version
- Stainless steel sheath

Pt100 GENERAL PURPOSE TEMPERATURE SENSOR. STYLE RA



ORDER CODES		
Dia (mm)	length (mm)	Code
6.0	50	010632TD/A
6.0	100	010632TD/B

Alternatives made to order -

QUICK RESPONSE THIN FILM, GENERAL PURPOSE Pt100 PROBE. STYLE RA



ORDER CODES
3 wire connection available on request
010331TD

- Stainless steel sheath housing a thin film Pt100 in flat tip
- Adjustable, fitted compression gland
- Pt100, Class B element, 2 wire connection
- Probe 4mm diameter x 117mm
- Sensor temperature range -50 to 250°C
- Brass gland 1/2" BSP (P)
- 1m PTFE insulated, screened lead, 2 wire 7/0.2mm

DUPLEX Pt100 PROBE WITH EXTENSION LEAD. STYLE RA



ORDER CODES

Dia (mm)	Length (mm)	Code
6.0	150	RAA-D3B-60-150-PI-2.0-C2-T
6.0	250	RAA-D3B-60-250-PI-2.0-C2-T

- 2 independent Pt100 sensors in single sheath
- Pt100, Class B, 2 x 3 wire
- Sensor temperature range -50°C to 250°C
- 2m PTFE insulated screened lead, 6 core 7/0.2mm
- Stainless steel sheath

INDUSTRIAL Pt100 SENSOR WITH TERMINAL HEAD. STYLE RC



ORDER CODES

Probe length (mm)	Code
100	RCA-S4B-60-100-KNE
150	RCA-S4B-60-150-KNE
200	RCA-S4B-60-200-KNE
400	RCA-S4B-60-400-KNE
600	RCA-S4B-60-600-KNE

- High temperature, rugged probe with Pt100 element
- Pt100, Class B, 4 wire connection
- Stainless steel sheath, 6mm diameter
- Aluminium IP67 terminal head, M20 x 1.5mm cable entry
- Sensor temperature range -100 to 450°C
- Optional transmitter-in-head, see page 14
- Thermowells & fittings available, see page 13

INDUSTRIAL, Pt100 SENSOR WITH TERMINAL HEAD, EXTENSION & REPLACEABLE INSERT. STYLE RC & RE



ORDER CODES

Pt100 complete assembly:

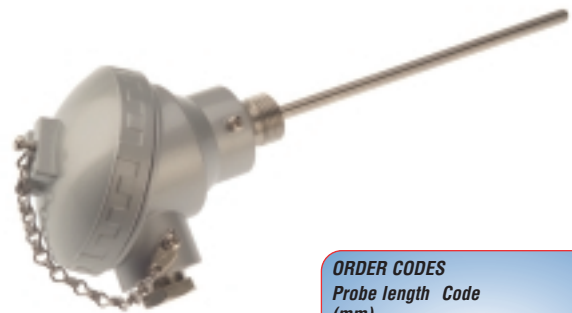
Probe length (mm)	Code
150	010556TD/A
250	010556TD/B
500	010556TD/C

Replaceable inserts:

Probe length (mm)	Code
150mm	RE-S4B-S60-275-DPB
250mm	RE-S4B-S60-375-DPB
500mm	RE-S4B-S60-625-DPB

- High temperature, rugged probe with Pt100 element
- Pt100, Class B, 4 wire connection
- Stainless steel sheath & extension
- Extension 12.5mm diameter x 75mm
- Aluminium IP67 terminal head, M20 x 1.5mm cable entry
- 1/2" BSP (P) process connection
- Replaceable spring loaded insert
- Sensor temperature range -100°C to 450°C

INDUSTRIAL Pt100 SENSOR WITH TERMINAL HEAD & PROCESS CONNECTION. STYLE RC



ORDER CODES

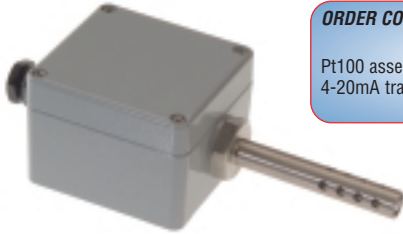
Probe length (mm)	Code
100	RCA-S4B-60-100-KNE-PR1
150	RCA-S4B-60-150-KNE-PR1
250	RCA-S4B-60-250-KNE-PR1
500	RCA-S4B-60-500-KNE-PR1

- High temperature, rugged probe with Pt100 element
- Pt100, Class B, 4 wire connection
- Stainless steel sheath, 6mm diameter
- Aluminium IP67 terminal head, M20 x 1.5mm cable entry
- 1/2" BSP(P) process connection, stainless steel
- Sensor temperature range -100°C to 450°C
- Optional transmitter-in-head, see page 14
- Thermowells & fittings available, see page 13

- details on request

RESISTANCE THERMOMETERS FOR SPECIFIC APPLICATIONS

EXTERNAL/COLD STORE Pt100 SENSOR. STYLE RTP



ORDER CODE	
Pt100 assembly	Code RTP-PT100
4-20mA transmitter version	Code RTP-PT100-TX

- Rugged, wall mounting Pt100 assembly for heavy duty applications
- Pt100, Class B for 2,3 or 4 wire connection
- Temperature range -50°C to 150°C
- Weatherproof assembly to IP67, H80 x W74 x D54mm
- Stainless steel perforated probe 12.5mm diameter x 75mm
- M20 cable gland
- 4-20mA transmitter option

CLEAN ROOM Pt100 SENSOR. STYLE RTZ



ORDER CODE	
RTZ-PT100	

- Moulded, wall mounting Pt100 housing for accurate, indoor air temperature sensing
- Moulded case H85 x W85 x D30mm
- Surface or standard electrical conduit mounting
- Pt100, Class B for 2,3, or 4 wire connection
- Temperature range 0 to 70°C

PATCH, SURFACE Pt100. STYLE RTF

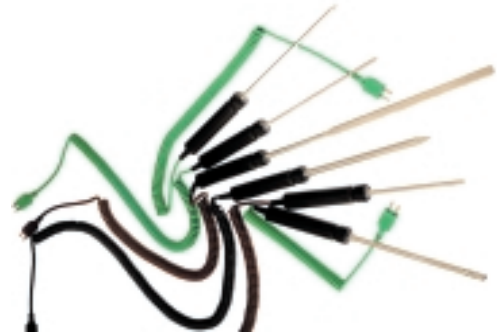


ORDER CODE	
RTF4-2	

- Pt100 Class B sensor in a moulded silicone rubber patch
- Dimension L40mm, W13mm, thickness 5mm
- 4 wire connection
- Self-adhesive, aluminium foil backing
- 2m PTFE insulated, twisted pair lead, 4 core, 7/0.2mm
- Temperature range -50 to 150°C
- Resistant to many oils & chemicals

HAND HELD Pt100 PROBES

A range of hand held probes provides alternative handle and sheath configurations – details on application.



PLATINUM RESISTANCE SENSING ELEMENTS

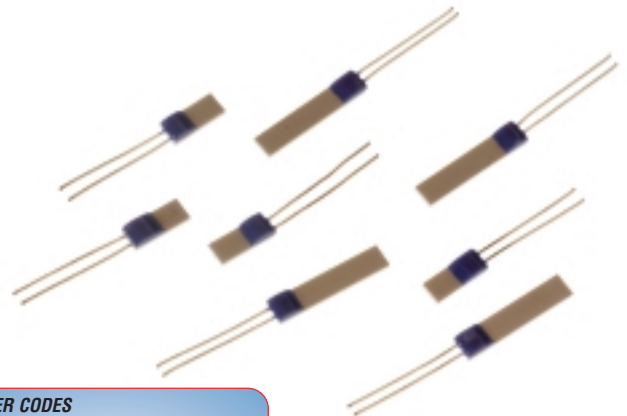
- Pt100 & Pt1000 elements to IEC751, Class A & B
- Wirewound & thin film construction
- Thin film elements are resistant to vibration & shock & provide better thermal sensitivity
- Wirewound elements provide optimum performance in process applications when used in a protective sheath
- Glass encapsulated options for hermetic sealing details on request
- Extended lead options, 2 & 4 wire with ceramic sheath
- Wide range of sizes
- Range -200 to 800°C wirewound, -70 to 500°C thin film
- Duplex versions (wirewound)

THIN FILM Pt1000 ELEMENTS



ORDER CODES	
<i>Thin Film elements Pt1000</i>	
Type	Code
2 x 10mm, Class A	DM-310
2 x 10mm Class B	DM-507
FOR PACKS OF 5, ADD x5 TO CODE	

THIN FILM Pt100 ELEMENTS



ORDER CODES	
<i>Thin Film elements Pt100</i>	
Type	Code
2 x 5mm, Class B	DM-503
2 x 10mm, Class A	DM-334
2 x 10mm, Class B	DM-333
2 x 2.3mm, Class A	DM-303
2 x 2.3mm, Class B	DM-301
FOR PACKS OF 5, ADD x5 TO CODE	

Alternatives made to order – details on request

**THIN FILM ELEMENTS Pt100, CLASS B
THERMOMETER INSERTS**



ORDER CODES	
Type	Code
450mm x 4 wire, 1/0.4mm Glass fibre	01-412-RT/A
450mm x 4 wire, 7/0.2mm PTFE	01-412-RT/B
10mm x 2 wire, 1/0.4mm Bare	01-412-RT/C
50mm x 2 wire, 7/0.2mm PTFE	01-412-RT/D

- Element housed in ceramic sheath 5mm dia x 35mm long
- Thin Film Pt100 Elements to BS1904 1984, class B
- Leads 1/0.4mm dia nickel wire
- 7/0.2mm singles copper wire, PTFE insulated
- 2 and 4 wire configurations
- Non sleeved or Glassfibre sleeved for -50°C to 450°C
- PTFE insulated wires for -50°C to 250°C

FLAT SHEATHED, THIN FILM Pt100



ORDER CODES	
01-411-RT	

- Sheathed Pt100 element in thin stainless steel body
- Dimensions, length x 35mm – width x 6mm – height 2mm
- Temperature range -50°C to 250°C
- 1m of PTFE insulated twin twist 7/0.2mm

Alternatives made to order – details on request

WIREWOUND ELEMENTS Pt100



ORDER CODES					
Dimensions Dia x length (mm)	Tolerance Class	Code	Dimensions Dia x length (mm)	Tolerance Class	Code
2.8 x 25	B	DA-016	1.5 x 15	B	DA-061
2.8 x 25	A	DA-017	1.5 x 15	A	DA-062
2.8 x 25	1/3	DA-018	1.5 x 15	1/3	DA-063
2.8 x 25	1/5	DA-019	1.5 x 15	1/5	DA-064
2.8 x 25	1/10	DA-020	1.5 x 15	1/10	DA-065
1.5 x 25	B	DA-026	1.5 x 8	B	DA-081
2.8 x 15	B	DA-041	1.5 x 8	A	DA-082
2.8 x 15	A	DA-042	1.5 x 8	1/3	DA-083
2.8 x 15	1/3	DA-043	1.5 x 8	1/10	DA-085
2.8 x 15	1/5	DA-044	2.3 x 25	B	DA-011
2.8 x 15	1/10	DA-045	1.6 x 15	1/10	DA-067
2.4 x 15	B	DA-046			
1.6 x 15	B	DA-056			

Also available with extended leads

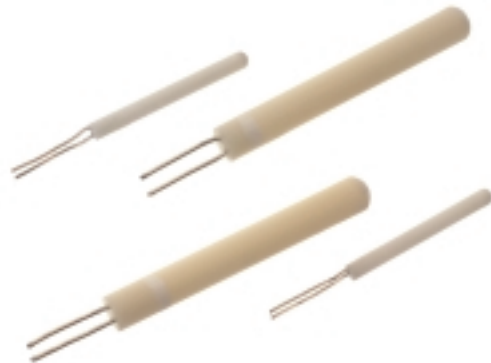
**WIREWOUND ELEMENTS, Pt100 CLASS B
WITH EXTENDED LEADS**

Leads 7/0.2mm copper wire, PFA sleeved



ORDER CODES	
Type	Code
5mm dia x 35mm long x 2 wire	010011TD
5mm dia x 35mm long x 4 wire	010010TD

DUPLEX WIREWOUND ELEMENTS, Pt100



2 x Pt100 elements, single element shown.

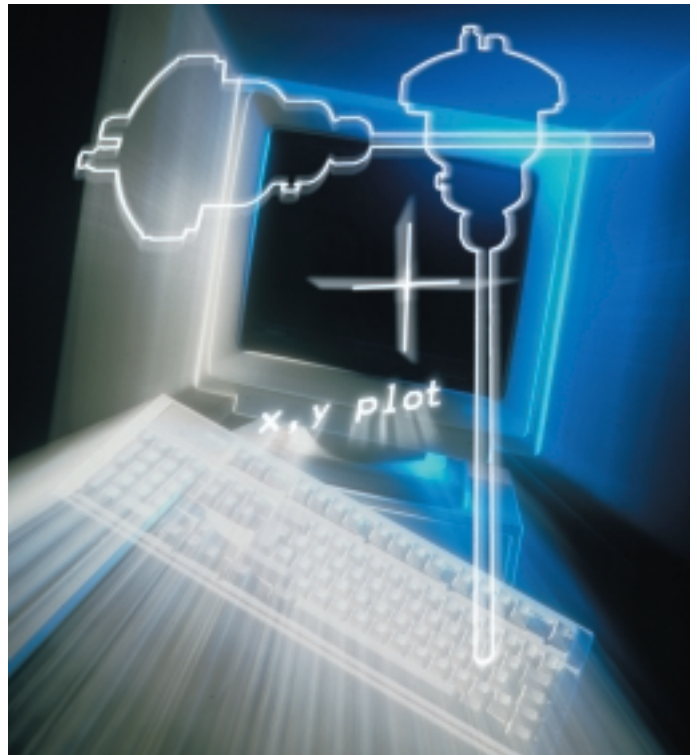
Also available with extended leads

ORDER CODES	
Type	Code
1.5mm dia x 15mm Class A	DB-151
1.5mm dia x 15mm Class B	DB-150

Labfacility is a specialist designer and manufacturer for custom specified temperature sensors. Special assemblies can be supplied against a sample (existing) probe, a customer drawing or a written specification. Special close tolerance, high accuracy sensors can be produced for the most exacting requirements. New machinery or processes may require a new design of temperature sensor and Labfacility can undertake such requirements. Advice is freely available on the best choice of sensor type, probe material, termination method and installation technique to best suit the process.



Special Autoclave Probe



Sensor capabilities and markets include:

- Vehicle ice-warning
- Steriliser
- Measurement of rotor-blade temperature
- Outside aircraft temperature measurement
- Medical and cryogenic applications
- Aircraft brake-disc temperature testing
- Formula 1 Racing – engine testing and tyre warming
- Manifold automotive engine testing
- Vending machines
- Surface temperature measurement
- Laboratory test equipment
- Food processing Machinery
- Wind tunnel Testing
- Tobacco Machinery
- Heating and Ventilation
- Plastics Machinery
- Textile Industry
- Oil Industry

PROBE CERTIFICATION

Labfacility can supply probes and instruments complete with a UKAS certificate of calibration to order.

Some stock resistance thermometer probes with a UKAS certificate are available for immediate delivery.

Custom calibration to specific customer requirements caters for routine, specified re-calibration for Quality control procedures. Calibration points can be specified between -20°C and +1100°C according to probe and instrumentation specifications. The certificate issued for each sensor will state any calibration error which is measured at the various test values and also the uncertainties which exist in the calibration measurement system.

Thermal Temperature Calibration

Essentially the test probe reading is compared with that of a certified reference probe whilst both are held at a common, stable temperature. Alternatively, if a fixed point cell is used, there is no comparison with a certified thermometer; fixed point cells provide a highly accurate, known reference temperature, that of their phase conversion.



COMPRESSION GLANDS



ORDER CODES

Stainless steel		
BSPP	bore mm	code
1/8"	1.5	FC-132
1/8"	3.0	FC-140
1/8"	6.0	FC-138
1/4"	3.0	FC-159
1/4"	6.0	FC-168
1/2"	6.0	FC-201
BSPT		
1/8"	1.0	FC-130
1/8"	1.5	FC-131
1/8"	3.0	FC-133
1/8"	4.5	XS-253-RS
1/8"	6.0	FC-136
1/4"	3.0	FC-158
1/4"	6.0	FC-167
1/2"	4.5	XS-256-RS
1/2"	6.0	FC-200
Brass		
BSPP	bore mm	code
1/8"	3.0	FC-003
1/4"	3.0	FC-031
1/4"	6.0	FC-036
BSPT		
1/8"	1.5	FC-001
1/8"	3.0	FC-002
1/8"	6.0	FC-011
1/4"	3.0	FC-030
1/4"	6.0	FC-037
1/2"	6.0	FC-092

- Male coupling compression glands for positioning temperature probes
- Brass & stainless steel versions
- 1/8", 1/4", 1/2" BSPP & BSPT
- Suitable for probe diameters 1.0, 1.5, 3.0, 4.5 & 6.0mm
- Metric threads also available from stock
- Imperial probe Sizes available upon request

FLANGE PLATE



ORDER CODES

Stainless steel	CA-250
Brass	CA-251

- Stainless steel or brass for mounting temperature sensor through a vessel wall
- Suitable for probe diameter 1.5, 3.0, 4.5 & 6mm
- 1/8" BSPP female thread to accept compression gland
- 3 x 4mm diameter holes on 40mm pcd

IN-HEAD INDICATORS

DM600 – BATTERY POWERED IN-HEAD FIELD INDICATOR

- Temperature readout in-head
- Battery powered (3 year battery life)
- RTD or TC input options
- Push button configurable
- 4 digit display
- IP67 housing

Details on request



THERMOPOCKETS



ORDER CODES

High pressure version 303 Grade stainless steel (1000 PSI)		code
To suit probe size/Length	Up to 6.35mm x 200mm	LB-005
High pressure version 316 Grade Stainless steel (Tapered) (5000 PSI)		code
To suit probe size/Length	6mm x 100mm	LB-003
	6mm x 150mm	LB-001-RS
Standard Fabricated versions 316 stainless steel		code
Outer Diameter 8mm		
To suit probe size/Length	3mm x 150mm	TPF-8.0-100
	3mm x 200mm	TPF-8.0-150
Outer Diameter 7/16" Dia		code
To suit probe size/Length	6mm x 150mm	TPF-11.1-100
	6mm x 200mm	TPF-11.1-150
	6mm x 400mm	TPF-11.1-350
	6mm x 600mm	TPF-11.1-550

- Solid drilled & fabricated versions
- Stainless steel 303 & 316 food grade
- Protect probes from corrosive media
- Facilitate probe replacement without process disturbance
- 1/2" BSPP process thread, 1/8" BSPP sensor connection
- To suit 3 & 6mm diameter probes
- Outside diameter 12mm
- High pressure version for 1000 & 5000 psi (solid drilled)

BAYONET FITTINGS & ADAPTORS



ORDER CODES

Bayonet Fittings	
Single pin / single slot	Code
3.0mm Grub screw	CA-302
4.5mm Grub screw	CA-303
3.0mm Compression	CA-300
4.5mm Compression	CA-301
Bayonet Adaptors	
22mm Long	CA-400
35mm Long	CA-401
48mm Long	CA-402
64mm Long	CA-403

- For quick fit & coupling of temperature probes
- Designed for installing "fixed mount" style temperature probes
- Adaptors = 303 ST/ST – Bayonet fittings = BNP
- Compression gland or grub screw fitting
- Adaptors with 1/8" BSP thread
- Alternative fittings available on request

DM700 – LOOP POWERED IN-HEAD FIELD INDICATOR

- Temperature readout in-head
- 4-20mA Loop Powered
- RTD or TC input options
- Push button configurable
- 4 Digit display
- IP67 housing

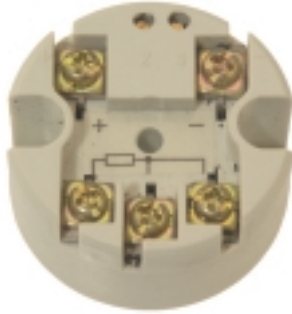
Details on request



Alternatives made to order – details on request

TX104 TEMPERATURE TRANSMITTER

- Proven, reliable design
- Two wire 4-20mA
- Low cost
- Terminal head mounting, DIN form for KNE, B&N heads
- Thermocouple input J,K and T
- Pt100 input, 2 or 3 wire
- User re-scaleable
- Special ranges to order
- EMC compliant
- Supply 10 to 30V dc
- High accuracy



ORDER CODE	
Type J	TX104J
Type K	TX104K
Type T	TX104T
Pt100	TX104RT

Specifications	
Output	4-20mA loop powered, Max, 30mA
Loop supply	10 to 30V dc reverse connection protected
Loop resistance	700Ω @ 24V
Ambient temperature	0 to 70°C operating
Dimensions	42mm dia x 23mm. Holes 5.5mm x 33mm centres
TX104P Pt100 input	
Accuracy	±0.2°C plus ±0.2% rdg
Range adjustment	25°C to 500°C
TX104 K,T or J thermocouple input	
Accuracy	±0.1%fs plus cold junction errors
Offset adjustment	±100°C, solder link & potentiometer
Span adjustment	100 to 1000°C
Cold junction	Automatic 0 to 70°C
Rescaleable	Type K between 0 and 1000°C Type J between 0 and 400°C Type T between 0 and 400°C

Note: Thermocouple must have insulated measuring junction

TX203 DIGITAL PRT TEMPERATURE TRANSMITTER

- Low cost, high accuracy
- Two wire, 4-20mA
- Pt100 input, 2 or 3 wire, -200°C to 850°C
- Terminal head mounting, DIN form for KNE, B & N heads
- EMC compliant
- Supply 10 to 30V dc
- "One shot" digital programming, without "pots"
- Sensor fail LED



ORDER CODE	
TX203	

Specifications	
Input	Pt100, 2/3 wire, IEC751, 100Ω @ 0°C
Range	-200°C to 850°C
Accuracy	±0.1°C ±0.1% of reading
Output	4-20mA, loop powered
Loop supply	10-35V dc, reverse connection protected
Loop resistance	700Ω @24V
Ambient temperature	-40°C to 85°C
Dimensions	43mm dia x 21.2 holes 5.5mm dia x 33mm center

TX205 SMART TEMPERATURE TRANSMITTER

- Low cost, entry level SMART transmitter
- Galvanic isolation
- High accuracy
- Pt100 input 2 or 3 wire, -200 to 850°C scaleable
- Programming via RS232 interface
- Two wire, 4-20mA
- Thermocouple input J,K,T,R,S,E & N - 200 to 1760°C full range, scaleable
- Terminal head mounting
- EMC compliant
- Supply 10-30V dc
- IS version to EexialIC T4 T6 available



ORDER CODES	
PRT version TX205P	
Thermocouple version	TX205T
PRT version IS	TX205PX
Thermocouple version IS	TX205TX

Specifications	
Output	4-20mA loop powered
Loop supply	10-30V dc, reverse connection protected
Loop resistance	700Ω @24V
Ambient temperature	-40°C to 85°C
Dimensions	43mm dia x 21. Holes 5.5mm dia x 33 centre
Pt100 input:	
Accuracy	±0.1°C ±0.05% of reading
Thermocouple input:	
Types	J,K,T,R,S,E,N
Accuracy	±0.04% full range ±0.4% of reading
Cold junction	Automatic, 0 to 70°C

Note: Thermocouple must have insulated measuring junction

TX210 SMART ISOLATED TEMPERATURE TRANSMITTER

- Low cost, entry level
- Smart transmitter with galvanic isolation
- High accuracy
- Pt100 input 2 or 3 wire, -200 to 850°C scaleable
- Programming via RS232 interface
- Two wire, 4-20mA
- Thermocouple input J,K,T,R,S,E & N - 200 to 1760°C full range, scaleable
- Terminal head mounting, DIN form
- EMC compliant
- Supply 10-30V dc
- IS version to EexialIC T4 T6 available



ORDER CODES	
PRT version TX210P	
Thermocouple version	TX210T
PRT version IS	TX210PX
Thermocouple version IS	TX210TX

Specifications	
Output	4-20mA loop powered
Loop supply	10-30V dc, reverse connection protected
Loop resistance	700Ω @24V
Ambient temperature	-40°C to 85°C
Dimensions	43mm dia x 21. Holes 5.5mm dia x 33 centre
Pt100 input:	
Accuracy	±0.1°C ±0.05% of reading
Thermocouple input:	
Types	J,K,T,R,S,E,N
Accuracy	±0.04% full range ±0.4% of reading
Cold junction	Automatic, 0 to 70°C

Alternatives made to order – details on request

**EUROPE'S LARGEST RANGE OF
TEMPERATURE SENSORS**

- Industrial & laboratory thermocouple & PRT probes in configurations to suit any application, ranges from -200°C to 1700°C
- Custom design versions available
- Transmitter-in-head options
- Pt100 elements
- Probe fittings & accessories

All in this brochure

THE BEST IN THERMOCOUPLE CONNECTORS

- Full range of thermocouple connectors – high quality plugs and sockets in IEC 60584, ANSI, JIS, and other colours
- Comprehensive range of fittings and accessories including mounting panels

**WIDE RANGE OF HIGH QUALITY
THERMOCOUPLE & PRT CABLES**

- Extension and compensating cables – a wide range of insulation types and configurations in IEC 60584 and BS 1843 colours including PFA, PTFE, PVC and fibreglass

**MARKET LEADING TEMPERATURE &
PROCESS INSTRUMENTATION**

- Precision digital thermometers
- Multi function digital thermometers
- Calibrators
- Multi-way switches
- Transmitters
- Controllers & Indicators
- Loggers and Scanners
- Digital test Meters

**EQUIPMENT & COMPONENT PARTS FOR
SENSOR MANUFACTURERS**

- Compact thermocouple welder and microwelder
- MI cables, stainless steel sheaths, pots and fittings
- Terminal heads & blocks

VERSATILE DRY BLOCK CALIBRATORS

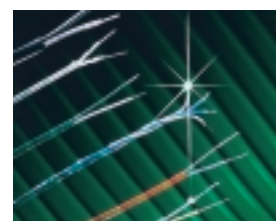
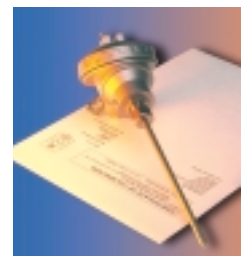
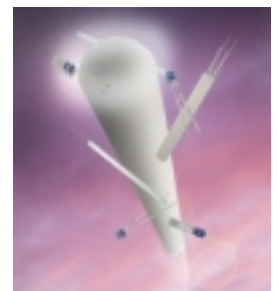
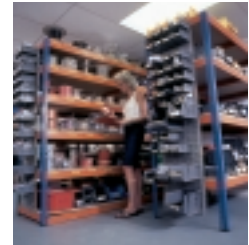
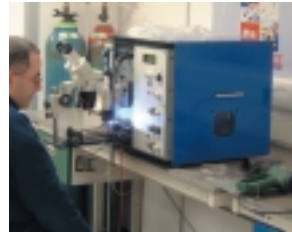
- Accurate, stable portable calibrators for -10°C to 1200°C to suit industrial & scientific temperature sensors

UKAS TRACEABLE CALIBRATIONS

- Certified probe calibrations between -10°C and 1200°C

**And our indispensable Temperature
handbook**

Extensive pdf downloads available from website



LABFACILITY – LEADERS IN TEMPERATURE MEASUREMENT



Labfacility market leading products represent **more than thirty years of design and applications**

experience in industrial and laboratory, temperature and process measurement. Labfacility products and services are specified by leading UK and European distributors and manufacturers and are also exported to more than 85 countries.



Quality and Service are key elements in the continued growth of Labfacility; technical support is always freely available from our experienced technical sales teams and the company has ISO9001 accreditation.



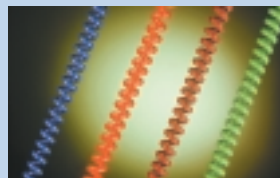
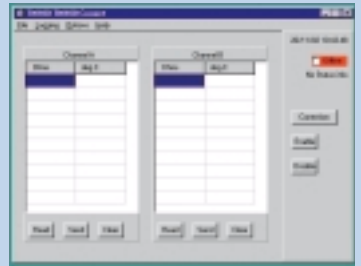
Not only do we manufacture temperature sensors and fittings, thermocouple connectors, precision electronic thermometers and thermocouple welders, we also supply thermocouple cables, temperature transmitters, hand held digital thermometers and test instruments, dry block calibrators, loggers, scanners and temperature controllers.

LABFACILITY – MANUFACTURER AND STOCKIST

Applications and Industries include:

- Autoclaves ● Aerospace ● Automotive & Motorsport
- Education ● Energy ● Food ● Heat Treatment
- Medical ● Metallurgy ● Meteorology
- Metrology, In particular, R&D, Temperature Calibration, Laboratory and Quality Control departments.
- Plastics & Rubber ● Power Generation.

Extensive pdf downloads available from website



LABFACILITY

TEMPERATURE & PROCESS TECHNOLOGY

To receive our regular email newsletter, please register your details on our website

www.labfacility.co.uk



Certificate No. 4746

SOUTHERN UK & EXPORT DIVISION: Units 5,6 & 7, Block K, Southern Cross Industrial Estate, Shripney Road, Bognor Regis, West Sussex PO22 9SD

Export Sales: tel: +44(0)1243 871287 fax: +44(0)1243 871281 email: exportsales@labfacility.co.uk
Southern UK Sales: tel: +44(0)1243 871280 fax: +44(0)1243 871281 email: southernsales@labfacility.co.uk

NORTHERN UK DIVISION: Unit 3B Outgang Lane, Dinnington, Sheffield S25 3QY

Northern UK Sales: tel: +44(0)1909 569446 fax: +44(0)1909 550632 email: northernsales@labfacility.co.uk