

BRAMMER stock over 340 Labfacility products at their Wolverhampton NDC available for immediate despatch.

Labfacility is the UK's leading manufacturer of Temperature Sensors, Thermocouple Connectors and associated Temperature Instrumentation and stockists of Thermocouple Cables. The Company has been trading since 1971, is ISO 9001 accredited, employs over 70 staff over two UK sites – West Sussex and South Yorkshire and exports to over 85 countries. In addition to the stocked items, Labfacility also offers bespoke Temperature Sensors

Applications and Industries include:

- Autoclaves ■ Aerospace ■ Automotive & Motorsport ■ Education ■ Energy ■ Food production ■ Chillers & freezers ■ Heat treatment ■ Medical ■ Metallurgy ■ Meteorology ■ Metrology, In particular R&D, Temperature Calibration, Laboratory and QA departments ■ Pharmaceutical ■ Plastics & Rubber ■ Power Generation

Please see below a small selection of the Labfacility products within the Brammer catalogue (section Control Gear + Switch Gear 13 – pages 340 to 353 inclusive).

Miniature Connectors

- A range of miniature IEC thermocouple connectors to suit calibrations K, J & T
- Ideal for general purpose use
- All contacts are polarised to ensure correct connection
- Contacts are made from true thermocouple alloys
- Colour coded in accordance with IEC specification
- Maximum continuous operating temperature 220°C



Order Code	Description
WXL1887	IM-K-M MINI PLUG
WXL1891	IM-K-LCF MINIATURE SOCKET
WXL1897	IM-K-MQ MINIATURE QUICK WIRE PLUG
WXL1900	IM-K-FQ MINIATURE QUICK WIRE SOCKET
WXL1903	IM-K-SSPF MINIATURE STAINLESS STEEL PANEL SOCKET

Standard Connectors

- A range of standard IEC thermocouple connectors to suit calibrations K, J & T
- Suitable for industrial applications
- All contacts are polarised to ensure correct connection
- Contacts are made from true thermocouple alloys
- Colour coded in accordance with IEC specification
- Maximum continuous operating temperature 220°C



Order Code	Description
WXL1912	IS-K-M STANDARD LINE PLUG
WXL1915	IS-K-F STANDARD LINE SOCKET
WXL1918	IS-K-MQ STANDARD QUICK WIRE LINE PLUG
WXL1921	IS-K-FQ STANDARD QUICK WIRE LINE SOCKET
WXL1927	IS-K-SSPF STANDARD PANEL SOCKET WITH STAINLESS STEEL BRACKET

Miniature Connectors

- A range of miniature ANSI thermocouple connectors to suit calibrations K, J & T
- Ideal for general purpose use
- All contacts are polarised to ensure correct connection
- Contacts are made from true thermocouple alloys
- Colour coded in accordance with ANSI specification
- Maximum continuous operating temperature 220°C



Order Code	Description
WXL1939	AM-K-M MINIATURE PLUG
WXL1942	AM-K-LCF MINIATURE SOCKET
WXL1948	AM-K-MQ MINIATURE QUICK WIRE PLUG
WXL1951	AM-K-FQ MINIATURE QUICK WIRE SOCKET
WXL1957	AM-K-SSPFQ MINIATURE QUICKWIRE STAINLESS STEEL BRACKET

Standard Connectors

- A range of standard ANSI thermocouple connectors to suit calibrations K, J & T
- Suitable for industrial applications
- All contacts are polarised to ensure correct connection
- Contacts are made from true Thermocouple alloys
- Colour coded in accordance with ANSI specification
- Maximum continuous operating temperature 220 deg°C



Order Code	Description
WXL1963	AS-K-M STANDARD LINE PLUG
WXL1966	AS-K-F STANDARD LINE SOCKET
WXL1969	AS-K-MQ STANDARD QUICK WIRE LINE PLUG
WXL1972	AS-K-FQ STANDARD QUICK WIRE LINE SOCKET
WXL1978	AS-K-SSPF STANDARD PANEL SOCKET WITH STAINLESS STEEL BRACKET

Fast Response MI Thermocouple Threaded Pot & Tails - TYPE K

- 0.5mm diameter probe
- Sensor range -100 to 800°C
- Tails 100mm, PFA insulated twin twisted, 7/0.2mm
- Calibration Type K
- M8 x 1.0mm threaded pot seal (200°C)
- 310 Stainless steel or Inconel 600 sheath available
- Choice of insulated or grounded hot junctions



Order Code	Description
WXL2024	150 MM (L) - SS310 (SHEATH MATERIAL) - INSULATED
WXL2026	500 MM (L) - SS310 (SHEATH MATERIAL) - INSULATED

Fast Response MI Thermocouple with Fitted Miniature Plug - TYPE K

- 0.5mm diameter probe
- Stainless steel 310 sheath
- Insulated or grounded hot junction available
- Fitted miniature plug termination (220°C) for quick, simple connection
- Sensor range -100 to 800°C



Order Code	Description
WXL2037	PROBE SIZE: 0.5 X 150 MM - INSULATED
WXL2039	PROBE SIZE: 0.5 X 500 MM - INSULATED

Mineral Insulated Thermocouple with Fitted Connector

- Mineral insulated thermocouple with miniature or standard plug
- Stainless steel 310 sheath
- Calibration Type K
- 1.5, 3.0 & 6.0 mm diameters available
- Miniature plug (MP) or standard plug (SP) termination



Order Code	Description
WXL2048	PROBE SIZE: 1.5 X 150MM WITH MINIATURE PLUG
WXL2052	PROBE SIZE: 3.0 X 250MM WITH STANDARD PLUG

Mineral Insulated Thermocouple with Threaded Pot Seal & Lead

- Mineral insulated thermocouple with threaded pot seal & lead
- Sensor range -100 to 1100°C
- Tails 100mm, PFA insulated twin twisted, 7/0.2mm
- M8 x 1.0mm threaded pot seal (200°C)
- Calibration Type K
- 310 Stainless steel sheath
- 1.0, 1.5, 3.0 & 6.0 mm diameters available



Order Code Description

WXL2054 PROBE SIZE: 1.0 X 1000MM

WXL2058 PROBE SIZE: 1.5 X 1000MM

Industrial Style Thermocouple with Terminal Head

- Type K: Stainless steel 310 sheath
- Type J: Stainless steel 321 sheath
- Calibration type K or J
- M20x1.5mm cable entry
- Type K Sensor range -100 to 1100°C
- Type J Sensor range -100 to 760°C
- 6mm diameter
- Weatherproof aluminium IP67 terminal head with screw fit lid
- 100, 150, 200, 300, 400, 500 & 600 mm lengths available



Order Code Description

WXL2066 TYPE K - PROBE SIZE 6.0 X 150 MM

WXL2068 TYPE K - PROBE SIZE 6.0 X 300 MM

Magnet Thermocouple

- Strong magnet housing type K thermocouple
- 2 metres stainless steel over-braided PFA Teflon® cable fitted with miniature plug
- Temperature rating -50°C to +250°C
- Grounded measuring junction
- Magnet: 1" diameter (3kg pull)
- Rapid, reliable temperature sensing on ferrous surfaces



Order Code Description

WXL2079 MAGNET THERMOCOUPLE, TYPE K

Button Magnet Thermocouple

- Button magnet thermocouple
- Ideal for ferrous metal surface measurement
- Spring loaded junction to ensure good contact
- 1 metre long Teflon® insulated twin-twisted wire
- Fitted miniature plug (200°C)
- Sensor range to 250°C



Order Code Description

WXL2080 BUTTON MAGNET THERMOCOUPLE, TYPE K

Leaf Thermocouple

- Thermocouple mounted on a stainless steel shim
- 25x13mm shim
- Junction grounded at tip for fast response
- Rated 350°C
- 2 Metre glass fibre insulated lead with stainless steel over braid, 7/0.2mm
- Type J or K available



Order Code Description

WXL2081 TYPE K LEAF THERMOCOUPLE

WXL2082 TYPE J LEAF THERMOCOUPLE

Heavy Duty Probe Thermocouple

- Rugged thermocouple with stainless steel sheath
- Stainless steel probe 4.5mm x 150mm
- 2 metres stainless steel over braided cable 7/0.2mm
- Temperature rating -60°C to +350°C
- Grounded measuring junction



Order Code Description

WXL2083 STAINLESS STEEL PROBE 4.5MM X 150MM TYPE J

Magnetic Strip Thermocouple

- Magnetic strip thermocouple Type K
- PTFE insulated wires terminated in a 50 x 25 x 1mm magnetic strip
- Twin-twist wires, 2 Metres long
- Fitted miniature plug
- Range 0 to 120°C
- Ideal for ferrous metal surface measurement



Order Code Description

WXL2084 MAGNETIC STRIP THERMOCOUPLE TYPE K

Pipe Surface Thermocouples

- For pipe temperature measurement up to 350°C
- They are available in a number of sizes to suit your diameter of pipe
- These sensors make direct contact with the pipe for maximum performance and have grounded tips for a fast response
- Stainless steel pipe clamp sensor with adjustable diameter
- Available in thermocouple type K or J
- Fits pipe diameters from 13-20mm, 22-30mm, 30-45mm and 40-55mm
- Grounded tip for fast response
- Rated up to 350°C
- Fitted with 2 metres of glass fibre stainless steel braided extension cable, 7/0.2mm



Order Code Description

WXL2087 TYPE K, TO FIT PIPE 30-45MM DIA

WXL2088 TYPE K, TO FIT PIPE 40-55MM DIA

Exposed Junction Thermocouple - PTFE Insulated

- Fast response, exposed junction
- PTFE insulated wires
- Twin-twist 1/0.2mm, Class 1
- Range -75 to 250°C
- Ideal for test & development work



Order Code Description

WXL2090 TYPE K 2 METRE LONG

WXL2092 TYPE K 2 METRE LONG WITH MINIATURE PLUG

Exposed Junction Thermocouple - PFA Insulated

- Thermocouple types K & T to IEC 584
- Fast response, welded exposed junction
- 5 metre long Teflon® PFA insulated twin-twisted lead
- Conductor size, 1/0 315mm solid or 7/0.2mm stranded
- Miniature plug termination
- Temperature range -75°C to +250°C
- Ideal for test & development applications



Order Code Description

WXL2100 TYPE K 7/0.2 STRANDED PFA INSULATED TWIN-TWISTED LEAD

WXL2101 TYPE T 1/0.315 SOLID PFA INSULATED TWIN-TWISTED LEAD

Self Adhesive Patch PT100 Sensor (RTF4)

- Silicone rubber patch with self adhesive foil backing
- Pt100 class B, 4 wire sensor
- Dimensions L40 x W13 x 5mm thick
- Good resistance to oils & chemicals
- Temperature range -50 to 150°C
- 2m or 5m PTFE insulated twisted leads, 7/0.2mm



Order Code Description

WXL2103 SILICONE RUBBER PATCH 2 METRE

WXL2104 SILICONE RUBBER PATCH 5 METRE

External / Cold Store PT100 Temperature Sensor

- External / cold store PT100 temperature sensor
- Weatherproof IP67 rated wall mounting Pt100 for accurate outdoor air temperature sensing
- Housing 80 x 74 x 54mm
- Surface mounting Pt100, class B, 4 wire
- Temperature range -50 to 150°C
- Perforated stainless steel probe, 12.7 x 75mm
- M20 cable gland



Order Code	Description
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WXL2105	EXTERNAL / COLD STORE PT100 TEMPERATURE SENSOR
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General Purpose Pt100 Silicone Rubber Lead

- General purpose Pt100 silicone rubber lead
- Pt100, class B, 4 wire
- Sensor temperature range -50 to 200°C
- 2 Metre silicone rubber insulated screened lead 7/0.2mm
- 6mm diameter, 50 or 100mm long



Order Code	Description
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WXL2106	PROBE SIZE: 6 X 50MM
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General Purpose Pt100 Probe with PFA / PTFE lead

- Pt100, class B, 4 wire
- Sensor temperature range -50 to 250°C
- 1 metre PTFE insulated screened lead 7/0.1mm for 3mm sheath
- 1 metre PFA insulated screened lead 7/0.2mm for 6mm sheath
- Stainless steel 316 sheath
- 3mm diameter sheath, 150 or 250mm long



Order Code	Description
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WXL2107	PROBE SIZE: 3MM X 150MM
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WXL2109	PROBE SIZE: 6MM X 150MM
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Heavy Duty Pt100 Probe fitted with Terminal Head

- Heavy duty Pt100 probe fitted with terminal head
- Pt100, class B, 4 wire
- Stainless steel 316 sheath
- Weatherproof aluminium IP67 terminal head with screw fit lid, M20x1.5mm cable entry
- Sensor range -100 to 450°C



Order Code	Description
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WXL2114	6MM DIAMETER X 200MM LONG
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WXL2115	6MM DIAMETER X 400MM LONG
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Pt100 precision probe with 2 metre lead

- Pt100 precision probe with 2 metre lead
- High accuracy, +/- 0.06°C at 0°C
- Pt100 1/5th Din, 4 wire
- Sensor temperature range -50 to 250°C
- 2m PTFE insulated screened lead 7/0.2mm
- Stainless steel 316 sheath 6 x 250mm



Order Code	Description
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WXL2116	PROBE SIZE: 6 X 250MM
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Mica Nozzle Heaters

- Best quality mica for high dielectric strength and maximum heat transfer
- High performance wound element for superior heat distribution
- 1 metre long stainless steel braided cable
- Recommended for temperatures up to 300°C
- 240V
- Wide range of applications including plastic process machinery, injection / blow moulding, rubber moulding, test equipment, food process industry etc



Order Code	Description
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WXL2118	1 INCH (D) - 1.5 INCH (L) - 150 (WATTAGE)
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WXL2122	40MM (D) - 25MM (L) - 250 (WATTAGE)
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PTFE Insulated Twin Twisted Pair Thermocouple Cable

- PTFE insulated, twin twisted pair thermocouple cable
- Single twisted pair
- PTFE insulated cable / wire
- Tolerance class 1
- Insulation rating -75 to 260°C
- IEC584 colour coded
- Available in 25, 50 & 100 metre reels



Order Code	Description
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WXL2126	25 METRE REEL
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WXL2128	100 METRE REEL
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PVC Insulated Mylar Screened Thermocouple Cable

- PVC insulated, mylar screened thermocouple cable
- Single pair PVC insulated twisted cores cable / wire
- Mylar tape screen with bare copper drain wire
- PVC sheathed overall
- Tolerance class 2
- Insulation rating -10 to 105°C
- IEC584 colour coded
- Available in 100 metre Lengths



Order Code	Description
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WXL2129	TYPE K PVC MYLAR 100M
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PVC Insulated Flat Pair Thermocouple Cable

- PVC Insulated flat pair thermocouple cable
- Single pair in types K, J and VX
- PVC insulated cable/wire
- Laid flat, side by side & PVC sheathed
- Tolerance class 2
- Insulation rating -10 to 105°C
- IEC584 colour coded
- Available in 100 metre Lengths



Order Code	Description
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WXL2131	TYPE K PVC FLAT PAIR 100M
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PRT Sensor Cable - PTFE Insulated Silver Plated Copper Screen

- PRT sensor cable - PTFE insulated, silver plated copper screen
- 7/0.2 SPC copper conductors
- 4 cores PTFE insulated cable / wire
- Silver plated copper screen
- Insulation colours red/white
- Overall black PTFE insulation
- Insulation rating -75 to 260°C
- Available in 10 and 25 metre lengths



Order Code	Description
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WXL2155	4 CORE, 25 METRES
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Thermocouple Welder

- Simple to use thermocouple welder
- Designed for the production of commercial grade thermocouple junctions
- Also suitable for other fine wire work
- Front panel or footswitch operation
- Argon gas shield facility



Order Code	Description
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WXL2170	L60 WELDER
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Labcal PRO Precision Thermometer

- Reference standard thermometer for Pt100 and thermocouple sensors
- High accuracy $\pm 0.01^\circ\text{C}$ Pt100, $\pm 0.18^\circ\text{C}$ thermocouple
- 25 milliKelvin (0.025°C) system accuracy with Pt100
- Simple, fast digital matching to calibrated sensors, up to 10 points per channel retained in memory
- Use selectable resolution 0.001/0.01°C for Pt100 inputs
- Smart sensor capability Pt100 for corrections stored in probe
- Data logging
- Measures Pt100 and thermocouple types J, K, T, E, R, S, B, and N



Order Code	Description
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WXL2172	LABCAL PRO PRECISION THERMOMETER
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Tempmaster PRO Precision Thermometer

- The Tempmaster PRO (precision thermometer) from Labfacility provides very high precision temperature measurement with Pt100 sensors
- Data can be displayed in °C, °F, K or ohms as required; nine front panel push keys, the only user controls, are used in conjunction with the display screen
- It is this arrangement which makes for very simple and friendly operation
- Reference standard thermometer for Pt100 sensors
- High accuracy $\pm 0.01^\circ\text{C}$ Pt100
- 40 milliKelvin (0.040°C) system accuracy
- Precise linearisation conformity is realised by a hybrid maths polynomial technique
- Simple, fast digital matching to calibrated sensors, up to 10 points per channel retained in memory
- Additional digital matching to Pt100 sensors using custom constants
- Clear, comprehensive user information on alpha numeric display
- Resolution 0.01°C for Pt100 inputs
- Smart sensor capability Pt100 for corrections stored on probe
- Data logging
- Wide temperature range



Order Code	Description
WXL2173	TEMPMASTER PRO PRECISION THERMOMETER

L200 USB High Precision Digital Thermometer/Data Logger

- The Labfacility L200 Pt100 and thermocouple thermometer can be used in conjunction with a PC to provide accurate, versatile 8 channel thermocouple and Pt100 temperature measurement, scanning and logging of measured values
- It can also be used as a "stand alone" indicator/logger and incorporates a digital display of measured temperature
- Simple operation
- Low cost - high performance
- USB PC interface
- 8 thermocouple inputs, types J, K, T, E, N, R, S & B or Pt100 (3 wire) inputs



Order Code	Description
WXL2174	THERMOCOUPLE INPUT VERSION
WXL2175	PT100 INPUT VERSION

SEM203/TC In-Head RTD Temperature Transmitter

- The push button temperature transmitter is a cost effective "smart" in head transmitter that accepts thermocouple temperature sensors and converts sensor output over a configured range to a standard industrial (4 to 20) mA transmission signal
- A simple push button operation allows the user to select TC type, burnout direction, select fixed ranges and trim 4 and 20 mA points



Order Code	Description
WXL2179	SEM203TC TRANSMITTER, THERMOCOUPLE INPUT

300TXL High Accuracy, Low Profile, 2 Wire Temperature Transmitter

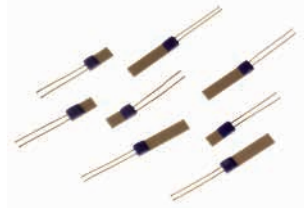
- The 300TXL is a 4-20mA analogue temperature transmitter, which can be housed in a probe terminal head suitable for a DIN standard block
- The overall height is only 23mm allowing it also to be housed in low-profile enclosures
- 4-20mA, 2 wire loop
- High accuracy & stability
- In-head mounting, DIN standard fixing
- Pt100 or thermocouple type J and K
- Effective input 'noise' rejection
- CE compliant
- RoHS compliant



Order Code	Description
WXL2185	PT100 INPUT, 0° TO 100°C, -0.1° TO 0.1° ACCURACY
WXL2191	TYPE K INPUT, 0° TO 200°C, -0.2° TO 0.2° ACCURACY

100 Ohm Flat Film Detectors

- 100 Ohm flat film detectors
- Pt100 to IEC751
- Thin film construction
- Resists vibration & shock
- Temperature range -50 to 500°C



Order Code	Description
WXL2196	PT100 2 X 2.3MM CLASS B

100 Ohm Wire Wound Detectors

- Pt100 single element
- Wire wound construction for optimum performance and stability
- Temperature range -200 to 650°C
- Class B or A to IEC 60751



Order Code	Description
WXL2204	PT100 1.5 X 15 WIRE WOUND CLASS A

Surface Temperature Spring Loaded Thermocouple with Copper Disc Tip

- Stainless steel sheath with a moulded handle and 1.50 metres of coiled extension cable terminated in a miniature thermocouple plug #
- Surface temperature spring loaded thermocouple with copper disc tip
- Maximum temperature: +850°C
- Probe 4.7mm \varnothing x 80mm long
- Tip 4mm \varnothing



Order Code	Description
WXL2224	K TYPE SPRING LOADED THERMOCOUPLE WITH COPPER DISC TIP

Surface Temperature Fast Response Thermocouple with Ceramic Tip and Coiled Element

- Stainless steel sheath with a moulded handle and 1.50metres of coiled extension cable terminated in a miniature thermocouple plug
- Surface temperature fast response thermocouple with ceramic tip and coiled element
- Maximum temperature: +900°C
- Probe 7.9mm \varnothing x 100mm long
- Coiled element diameter 5.5mm



Order Code	Description
WXL2226	K TYPE THERMOCOUPLE WITH CERAMIC TIP AND COILED ELEMENT

K Type Penetration Temperature Probe

- Stainless steel sheath with a moulded handle and 1.50 metres of coiled extension cable terminated in a miniature thermocouple plug
- Heavy duty penetration thermocouple with pointed tip for pushing into solid material
- Maximum temperature: +350°C
- Probe 6mm \varnothing x 150mm long



Order Code	Description
WXL2228	K TYPE PENETRATION TEMPERATURE PROBE

This represents just some of the 340 Labfacility products stocked by BRAMMER

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