

Oven Tracker® XL2 Thermocouple Range I

A comprehensive range to suit your exact application needs

- Designed to be accurate, repeatable and easy to operate
- Exceptionally durable, quad wrapped, 10 strand 36 AWG (0.125 mm/0.005 in), metal braid and PTFE sheathed* Type K thermocouple
- Specified to ANSI MC96.1 Special Limits of Error ($\pm 0.4\%$ or $\pm 1.1^{\circ}\text{C}/\pm 2.0^{\circ}\text{F}$, whichever is greater)
- IEC584 color standard (green) for Type K thermocouples
- Strong 'crimped' plug/cable attachment
- Circular cable cross section to reduce kinking and twisting
- Various cable lengths available

(*does not apply to PA1361 and PA1362)

MICROMAG THERMOCOUPLES

Employing state of art Samarium Cobalt magnet technology, these miniature surface and air thermocouples allow placement into the tightest of recesses. Ideal for car body shell areas that are difficult to access. Benefiting from a low thermal mass, response characteristics challenge those of exposed junction thermocouples with the benefit of quick and easy attachment to ferrous substrates. Despite its size, 17 mm (0.7 in) diameter, the magnet strength guarantees secure attachment up to the maximum experienced paint and powder coating cure temperatures. Encapsulated magnet design allowing reliable direct use even on wet painted and E-coated substrates. No risk of either magnet damage or magnet loss when the probe is removed from cured paint surface at the end of the oven process. Supplied with aluminum knob for easy routine rugged handling. Removable, if necessary, to suit application requirements.

MicroMag Surface

PA0973	1.5 m (5 ft)	Maximum temperature 265°C (509°F)
PA0974	3.0 m (10 ft)	Maximum temperature 265°C (509°F)
PA0975	6.0 m (20 ft)	Maximum temperature 265°C (509°F)

MicroMag Air

PA0995	1.5 m (5 ft)	Maximum temperature 265°C (509°F)
PA0996	3.0 m (10 ft)	Maximum temperature 265°C (509°F)
PA0999	6.0 m (20 ft)	Maximum temperature 265°C (509°F)

IRMAG SURFACE THERMOCOUPLE

Magnetic thermocouple designed to measure ferrous substrates in IR cure ovens. Combines easy attachment and fast thermocouple response. Ideal for automotive IR repair operations. Robust alternative to Adhesive Patch thermocouple.

PA1361	1.5 m (5 ft)	Maximum temperature: magnet 300°C (572°F); cable 400°C (752°F)
PA1362	3.0 m (10 ft)	Maximum temperature: magnet 300°C (572°F); cable 400°C (752°F)



MAGNETIC THERMOCOUPLES

Magnet offset from sensor to prevent heatsink effect and PTFE coated to prevent sticking (Recommended for E-coat applications). PTFE handle for quick, safe and easy removal or repositioning. Chamfered thermocouple head and metal tension arm designed to provide repeatable contact between sensor and product.

Surface

PA0053 1.5 m (5 ft) Maximum temperature 265°C (509°F)

PA0054 3.0 m (10 ft) Maximum temperature 265°C (509°F)

Air

Attach to ferrous components for measuring the surrounding ambient air temperature.

PA0055 1.5 m (5 ft) Maximum temperature 265°C (509°F)

PA0056 3.0 m (10 ft) Maximum temperature 265°C (509°F)

ALUCLAMP SURFACE THERMOCOUPLE

Clips onto the edge of an aluminum car hood or any other nonferrous panel, allowing surface temperature measurement right at the center of the panel.

PA1351 1.5 m (5 ft) Maximum temperature 265°C (509°F)

PA1352 3.0 m (10 ft) Maximum temperature 265°C (509°F)

ALUMINUM AUTOMOTIVE THERMOCOUPLES

Designed specifically for use on aluminum car body shells. The spring-loaded bobbin, that is clipped to any recess in the inner car body skin, provides secure attachment of the thermocouple.

Surface thermocouple arm assembly

PA0032 1.5 m (5 ft) Maximum temperature 265°C (509°F)

PA0033 3.0 m (10 ft) Maximum temperature 265°C (509°F)

Air thermocouple arm assembly

PA0036 1.5 m (5 ft) Maximum temperature 265°C (509°F)

PA0037 3.0 m (10 ft) Maximum temperature 265°C (509°F)

Spring action thermocouple mount

PA0030 Use with either surface or air arm assemblies. Order with appropriate thermocouple arm assembly.

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Worldwide Service

Fluke Process Instruments offers services, including repair and calibration. For more information, contact your local office.

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11/2016 OTXL2 Thermal Range1 RevC





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Oven Tracker® XL2 Thermocouple Range 2

A comprehensive range to suit your exact application needs

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- Specified to ANSI MC96.1 Special Limits of Error ($\pm 0.4\%$ or $\pm 1.1^\circ\text{C}/\pm 2.0^\circ\text{F}$, whichever is greater)
- IEC584 color standard (green) for Type K thermocouples
- Strong 'crimped' plug/cable attachment
- Circular cable cross section to reduce kinking and twisting
- Various cable lengths available

(*does not apply to PA0060/61/62, PA0215 and PA0180/82)

CLAMP THERMOCOUPLES

Clamp Surface

Clips to non-ferrous components for measuring substrate temperature.

PA0011	1.5 m (5 ft)	Maximum temperature 265°C (509°F)
PA0012	3.0 m (10 ft)	Maximum temperature 265°C (509°F)

Clamp Air

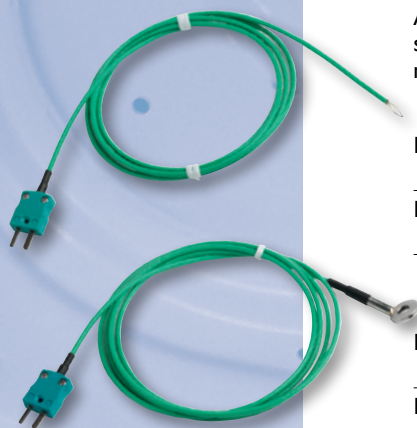
Clips to non-ferrous components for measuring the surrounding ambient air temperature.

PA0021	1.5 m (5 ft)	Maximum temperature 265°C (509°F)
PA0022	3.0 m (10 ft)	Maximum temperature 265°C (509°F)

EXPOSED JUNCTION THERMOCOUPLES

Exposed junction designed for use on test pieces that are left permanently rigged. Attached to the substrate by spot welding, soldering, use of high temperature tape or screw (washer). Used in applications, where conventional magnetic and clip attachment methods are not appropriate.

PA0063	1.5 m (5 ft)	Exposed Junction Maximum temperature 265°C (509°F)
PA0064	3.0 m (10 ft)	Exposed Junction Maximum temperature 265°C (509°F)
PA0081	1.5 m (5 ft)	Washer Maximum temperature 265°C (509°F)
PA0082	3.0 m (10 ft)	Washer Maximum temperature 265°C (509°F)



ADHESIVE PATCH THERMOCOUPLE

Ultra fast response, single strand and PTFE coated. Employs self-adhesive patch for attachment. Its minimal thermal mass makes it ideal for small items or plastics. Recommended for use in IR ovens, if the thermocouple requires over coating prior to the test.

PA0061	1.0 m (3 ft)	Maximum temperature 265°C (509°F)
PA0060	1.5 m (5 ft)	Maximum temperature 265°C (509°F)
PA0062	3.0 m (10 ft)	Maximum temperature 265°C (509°F)

EXPOSED JUNCTION THERMOCOUPLE – HIGH TEMPERATURE

Exposed junction thermocouple constructed of glass fiber cable and designed for high temperature coating applications, such as PTFE or Dacromet cure. Attached to the substrate by either high temperature tape or screw, or spot welded into position.

PA0215	0.8 m (2.6 ft)	Fast response, glass fiber Maximum temperature 500°C (932°F)
PA0182	1.5 m (5 ft)	Glass fiber Maximum temperature 500°C (932°F)
PA0180	3.0 m (10 ft)	Glass fiber Maximum temperature 500°C (932°F)

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Oven Tracker[®] XL2 Thermocouple Accessories

A comprehensive range to suit your exact application needs



MicroMag Thermocouple Mount

Designed to secure exposed junction thermocouples to ferrous substrate for air measurement, or in combination with patch or tape for secure monitoring of substrates in IR processes. Compatible with light and heavy-duty PTFE patch, glass fiber and mineral-insulated exposed junction thermocouples.

PA0980 Pack of 1 (thermocouple not included)



Thermocouple ID Tags

Aluminum ID tags fitted to the sensor end of the thermocouples cable allow clear identification of the thermocouple number or channel, even when the barrier is closed.

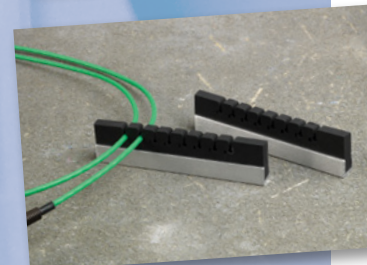
PA2051 Pack of 8, numbered 1 to 8



Hanging Storage Strap

Steel strap hangs from the barrier, so thermocouples can clamp on securely for easy and safe transport. Also provides tidy storage facility for clamp or magnetic thermocouples.

PA2052 1 storage strap holds up to 8 thermocouples



Thermocouple Cable Tidy

Keep cable routing even, prevent kinking and tangling. Easy thermocouple identification. Secures up to 8 cables.

PA2050 Pack of 1

High Temperature Adhesive Tape

Used to secure exposed junction thermocouples. Supply restricted in certain geographical locations. Contact Datapaq for clarification.

CS1030 33m (36 yards) long reel. Maximum temperature 400°C (752°F).
(Available in the United States of America ONLY)

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