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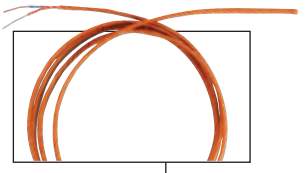
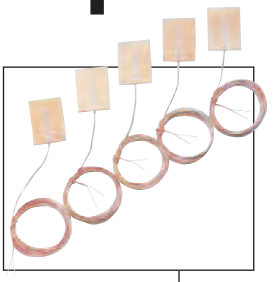
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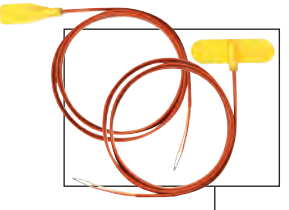
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# Thermocouple

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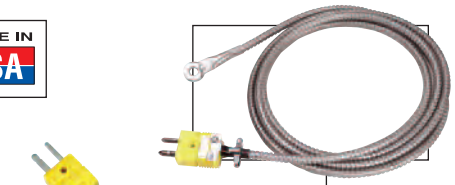
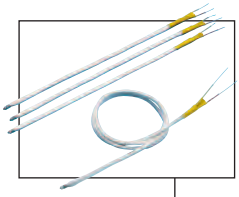
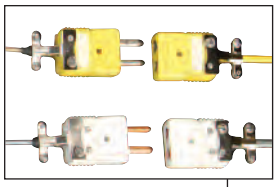
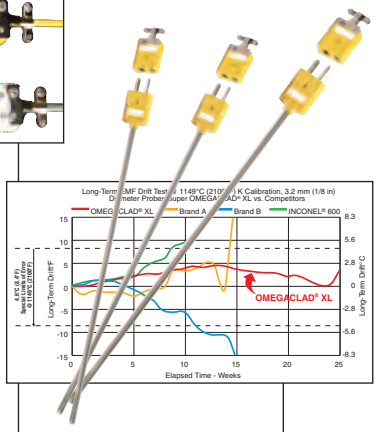




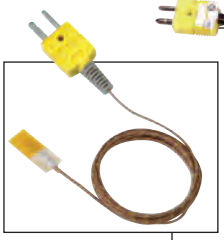



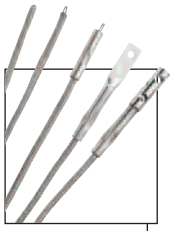
| Series No. | Unsheathed TC | 5TC/5SRTC | 5SC / 5LSC | HSTC | SA2 | SA1 / SA1-SC |
|---|---|---|---|---|---|---|
| **Price** | **$17 pkg of 5** | **$33 pkg of 5** | **$58 pkg of 5** | **$25** | **$30** | **$60 pkg of 5** |
| **Page No.** | A-17 | A-21 | A-23 | A-24 | A-25 | A-26 |
| **Configuration** | Fine gage bare wire uninsulated exposed junction | Insulated exposed junction | Insulated exposed junction with spool caddy mini connector | Hermetically sealed tip | Self-adhesive silicone patch | Insulated with self-adhesive pad |
| **Available Calibration** | J, K, T, E, R, S, B, G, C, D, N | J, K, T, E | J, K, T, E | J, K, T, E | J, K, T, E | J, K, T, E |
| **Temperature Range (Configuration and application dependent)** | To 2315°C (4200°F) | To 480°C (896°F) | To 480°C (900°F) connector to 220°C (425°F) | To 250°C (482°F) | To 260°C (500°F) | -60 to 175°C (-75 to 347°F) |
| **Insulation/ Sheathing** | None | PFA or glass braid and KAPTON® | PFA or glass braid and KAPTON® | PFA | Sensor patch: silicone. Leadwire: PFA | PFA |
| **Size (Non-standard lengths readily available)** | 0.0127 to 0.813 mm (0.0005 to 0.032") dia 150 or 305 mm (6 or 12) lengths standard | 0.0127 to 0.813 mm (0.005 to 0.032) dia 1 or 2 m (40 or 80") lengths standard | 0.0127 to 0.813 mm (0.005 to 0.032") dia 1 or 2 m (40 or 80") lengths standard | 24 AWG stranded , 1 or 2 m (40 or 80") lengths standard | Flat, 15 x 50 mm (0.59 x 1.97") or 35 x 12mm (1.38 x 0.47"). 24 AWG stranded thermcouple wire. 1 m (40") and 2 m (80") lengths Custom lengths available | Flat, 25 x 19 mm (1.0 x 0.75") 1 m (40") length Custom lengths available |
| **Features** | Fast response. Very small diameters. Pin-point measurements. Low heat transfer. | Molded subminiature connector with integral strain relief (5SRTC only). Special limits of error wire. Fast response. | Molded subminiature connector with integral strain relief. Special limits of error wire. Fast response. | Hermetically sealed thermcouple junction. Flexible, small and fast response. | Self adhesive silicone patch | Self-adhesive backing. Fast response. Low thermal inertia. |
| **Applications** | Biophysics, scientific instruments, cryogenics, gas chromatography, quickly changing temperatures. Unprotected, not suitable for liquid immersion and applications requiring protected probes. | Gas and surface measurements, applications requiring exposed thermocouple bead. PFA insulation resists chemical attack, glass insulation rated for high temperatures. | Gas and surface measurements, applications requiring exposed thermocouple and strain relief connector attachments. PFA insulation resists chemical attack, glass insulation rated for high temperatures. | Cleanrooms, laboratories, food services, chemical and petroleum. PFA insulation resists chemical attack. | Surface temperature. Flat or curved metal, glass, plastic or other smooth surface | Surface temperature measurement easily removed |
| **Sold As** | J, K, T, E, N sold in packs of 5. R, S, B, G, C, D calibrations sold individually. Contact Sales for special sizes and assemblies. | Packages of 5. Contact Sales for special sizes and assemblies. | Packages of 5. Contact Sales for special sizes and assemblies. | Individually. | Individually. | Packages of 5. Other lengths available. |

# Selection Guide

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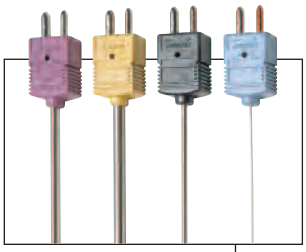


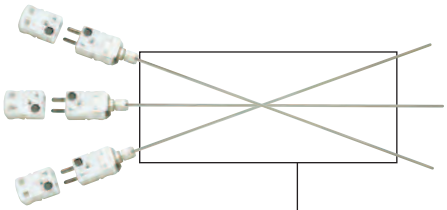


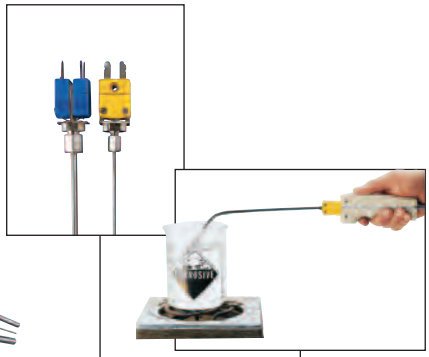
| Series No. | SA1XL | WT | Bare, SH, DH, FS | XC-20 - K | XCIB | TRP | Super OMEGACLAD® XL |
|---|---|---|---|---|---|---|---|
| **Price** | **$80 pkg of 5** | **$23** | **$6** | **$20** | **$35** | **$75** | **$26** |
| **Page No.** | A-27 | A-32 | A-33 | A-34 | A-35 | A-37 | A-43 to A-48 |
| **Configuration** | Insulated with self adhesive pad. Can also be used as a "Cement-On" Pad | Insulated with washer termination armored cable option | Bare wire TC with ceramic bead or Nextel insulation | Nextel insulated exposed junction | Ceramic fiber insulated, Inconel overbraid | Temperature reference probe | Super OMEGACLAD® XL transition joint, quick connect and handle styles |
| **Available Calibration** | J, K, T, E | J, K, T, E | J, K, T, E, N | J, K, E, N | J, K, E, N | J, K, T, E, R, S, B, G, C, D | K, N |
| **Temperature Range (Configuration and application dependent)** | To 315°C (600°F) | To 480°C (900°F) | Various; depends on diameter of thermocouple | Insulation to 2200°F (1200°C) Thermocouple to rated limits | To 1090°C (1994°F) depending on alloys | Probe to 980°C (1796°F) | To 1335°C (2440°F) |
| **Insulation/ Sheathing** | **Sensor tip:** Kapton®, fiber glass **Leadwire:** fiberglass (also available with SS overbraid) | Glass braid and PFA | Ceramic bead insulators or Nextel | High temperature Nextel ceramic | High temperature ceramic fiber with Inconel 600 overbraid | 304 Stainless steel sheath material | MgO insulation with Nickel-chrome based Super OMEGACLAD® XL Sheathing |
| **Size (Non-standard lengths readily available)** | Flat, 9.5 x 25.4 mm (0.37 x 1.0) 1 or 2 m (40 or 80") lengths Custom lengths available. | 20 gage wire from 300 to 1600 mm (12 to 60") lengths 3.7 mm to 6.6 mm (0.145 to 0.260") washer dia #6, #8, #10, ¼" screw sizes (M3.5, M4, M4.5, M6) | 0.510 to 3.25 mm (0.0201 to 0.128) dia 300 mm (12") lengths with 75 mm (3') leads standard | 0.511, 0.813, 1.628 mm (0.020, 0.032, 0.064") dia 300 mm (12") lengths with 150 mm (6") incremental add'l lengths | 4.76 to 7.94 mm (0.1875 to 0.3125") dia 1 to 3 m (3 to 10') lengths | 3.2 mm (0.125") dia 150 mm (6") probe 300 mm (12") standard lead length | 0.25 to 9.5 mm (0.010 to 0.375") dia 300 mm (12") standard length or 150 mm (6") |
| **Features** | "All-in-One" surface TC. Self adhesive or "Cement-On". Fast response. Low thermal inertia. | Washer termination attaches to surfaces with various size screws. Armored cable option. | Choice of various ceramic insulators available with most sizes. Fast response. | Insulation rated to 1200°C (2200°F) continuous, 1425°C (2600°F) short term. | 5 styles available: flexible, abrasion-resistant, high-temperature rating. | Made with SLE wire. Comes with mating connectors. | High temperature, low thermal drift,very stable. |
| **Applications** | Flat or curved metal, glass, plastic or other smooth surfaces. | Surface temperature measurement. Bolts to surface. | Inside thermowells. Some models for high temperatures. glued to surface. | High temperature. Can be used as the element in a head and well assembly. | Ovens, furnaces profiling machinery. | Calibration accessory. Thermocouple to copper transition at probe tip typically used in ice point chamber | Excellent oxidation, carburization and chlorination resistance. |
| **Sold As** | Packages of 5 Other lengths available. | Individually. Stripped leads or OSTW type standard size connector. Custom lead lengths available. | Individually. Contact Sales for special sizes. | Individually. | Custom lengths. | Individually | Individually. Custom lengths available *Available as* SUPER OMEGACLAD™ XL THERMOCOUPLE PROBES |

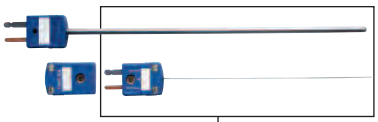
*See page A-43 to A-48.*

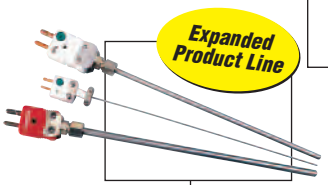
# Thermocouple









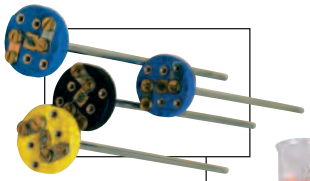


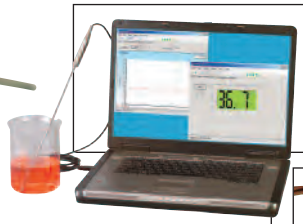

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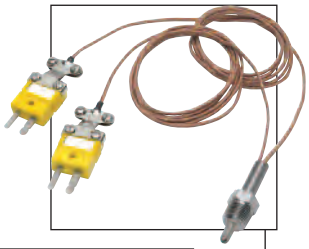
| Series No. | Mini Conn Probes | STD Connector Probes | (Probe) -NHX, -SHX | Extreme, High-Temp | (Probe ) Dual | (Probe) -PFA |
|---|---|---|---|---|---|---|
| **Price** | **$24** | **$22** | **$33.50** | **$124** | **$55.75** | **$47** |
| **Page No.** | A-53 to A-54 | A-55 to A-59 | A-61 to A-62 | A-63 to A-68 | A-69 | A-71 |
| **Configuration** | Metal sheathed, quick disconnect probes with miniature sized connectors | Metal sheathed, quick disconnect probes with standard size connectors | Metal sheathed, quick disconnect, high temperature probes | Metal sheathed exotic high-temperature probes | Dual element with miniature or standard size connector | Metal sheathed PFA coated probes (probes can be ordered bent) |
| **Available Calibration** | J, K, T, E, N | J, K, T, E, N | J, K, T, E, N | R, S, B, G, C, D | J, K, T, E, N | Various |
| **Temperature Range (Configuration and application dependent)** | To 980°C (1796°F) | To 980°C (1796°F) | Depending on thermocouple type and diameter | To 2300°C (4200°F) in vacuum. To 2200°C (4000° F) in inert/reducing atmosphere. To 1540°C (2800°F) in oxidizing atmosphere. | To 980°C (1796°F) | To 200°C (392°F) |
| **Insulation/ Sheathing** | MgO insulation with 304 or 321 SS or Inconel 600 sheathing 310SS/316SS | MgO insulation with 304 or 321 SS or Inconel 600 sheathing 310SS/316SS | MgO insulation with 304 or 321 SS or Inconel 600 sheathing | Hafnia, magnesia or alumina insulation with tantalum, molybdenum, Pl rhodium alloy or Inconel 600 sheathing | MgO insulation with 304 or Inconel sheathing 310SS/316SS | Magnesium oxide insulation with SS or Inconel 600 sheathing and PFA coating |
| **Size (Non-standard lengths readily available)** | 0.25 to 9.5 mm (0.010 to 0.375") dia 50, 300, 450 and 600 mm (6, 12, 18 and 24") lengths. Other lengths on request. | 0.25 to 9.5 mm (0.010 to 0.375") dia 50, 300, 450 and 600 mm (6, 12, 18 and 24") lengths. Other lengths on request. | 0.25 to 6.0 mm (0.010 to 0.250") dia 150, 300, 450 and 600 mm (6, 12, 18 and 24") lengths standard | 1.5 to 6.0 mm (0.062 to 0.25") dia. Various lengths | 1.5 to 6.0 mm (0.0625 to 0.250") dia | As small as 1 mm (0.40") OD 1.2 m (48") max. length |
| **Features** | Mini male connectors (mating females included) | Standard male connectors (mating females included) | Includes SHX or NHX ceramic male connectors rated to 650°C (1200°F). Mating female connector included. Standard and miniature sizes. | Very high temperature ratings. Choice of quick disconnect, transition junction, high temperature connector or stripped lead termination. | Standard and subminiature connectors. | Chemically inert. Electrically insulated. Abrasion resistant. |
| | Bendable sheaths/many optional features eg. grounded, ungrounded, exposed tip, SS or Inconel sheath, molded or non-molded and connectors, weld pads, PFA coating, low noise designs, high temperature, EMI suppression, low-cadmium environmentally friendly polymer | | | | | |
| **Applications** | Immersion in liquid, gas or air, custom tips for soft solid penetration, fast response, surface and air measurement. | | High temperature requiring quick connection and disconnection of probe, and where sheath and connectors may be subjected to high temperatures. | High temperature measurements in inert, oxidizing, or reducing atmospheres. | Permits 2 temp signals from 1 point. General purpose and immersion. Probes bend to radius of no less than 3x sheath diameter. | Battery electrolyte, plating baths, anodizing baths, severe environments, caustic or corrosive chemical solutions. |
| **Sold As** | **Page Model Feature:** A- 49, GKMQSS, low-noise A-53, KMQSS, standard A-54, HKMQSS, high-temp A-61 and A-62, SHX, ceramic | **Page Model Feature:** A-52, GKQIN, low noise A-55, KQSS, molded A-57, HKQIN, high-temp A-59, CAIN, standard A-61 and A-62, NHX, ceramic | Individually. Custom lengths available. Supplied with mating female connector and cable clamp. Contact Sales for special requirements. | Individual probes. Lead wire, standard or mini connectors, heavy-duty or ceramic. Contact Sales for special requirements. | Individually | Individual metal sheathed probes. PFA coating also available on thermowells. Contact Sales for special requirements. |

All Probe Pages Displaying the XL Logo in Section A are available in Super OMEGACLAD® XL Material

# Selection Guide

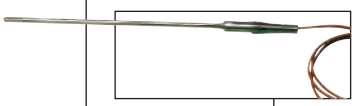


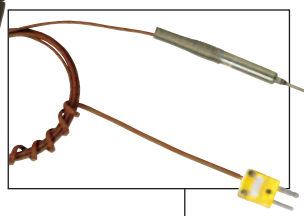




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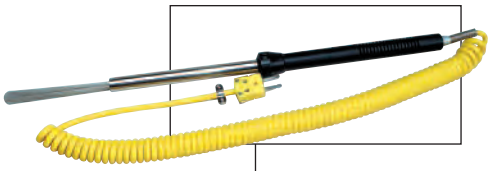




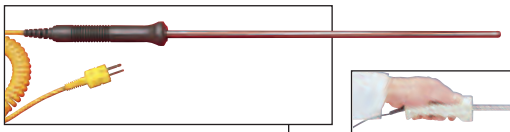


| Series No. | TB-(*) | Transition Joint | TJ-USB | TJFT72 | TC-(*)-NPT | PP3-36-(*) | HYP |
|---|---|---|---|---|---|---|---|
| **Price** | **$27** | **$28** | **$95** | **$42** | **$60** | **$283** | **$86** |
| **Page No.** | A-72 | A-74 | A-86 | A-87 | A-90 | A-91 | A-93 |
| **Configuration** | Metal sheathed probes with color coded terminal block | Metal sheathed, metal transition junction probes | Metal sheath probe with USB computer connection and software | Special probe transition junction probes | Specialty probes | Profile probes | Metal sheathed hypodermic probes |
| **Available Calibration** | J, K, T, E, N | J, K, T, E, N | K | J, K, T, E | J, K, T, E | J, K, T, E | J, K, T, E, RTD |
| **Temperature Range (Configuration and application dependent)** | Probe to 980°C (1796°F ) block to 220°C (425°F) | To 980°C (1796°F) | -200 to 1000°C (-328 to 1832°F) | Probe to 980°C (1796°F) | To 480°C (896°F) | Probe to 650°C (1200°F) | To 200°C (392°F ) |
| **Insulation/ Sheathing** | Magnesium oxide insulation with SS or Inconel 600 sheathing 310SS/316SS | MgO insulation with 304 or 321 SS or Inconel 600 sheathing 310SS/316SS | MgO insulation with 304 SS Inconel 600 and Super XL sheathing | MgO insulation with 304 or 321 SS or Inconel 600 sheathing 310SS/316SS | Mixed | MgO insulation with 316SS sheathing | Stainless steel needle |
| **Size (Non-standard lengths readily available)** | 1.5 to 6.0 mm (0.062 to 0.250") dia 300, 600, 900 mm (12, 24, 36") lengths standard | 0.25 to 9.5 mm 0.010 to 0.375") dia 50, 300, 450 and 600 mm (6, 12, 18 and 24") lengths. Other lengths on request | 4.5 and 6.0 mm (0.187 to 0.250") diameters, 457 and 610 mm (18 and 24") lengths standard | 1.5 and 6.0 mm (0.062 to 0.250") dia 150, 300, 450 and 600 mm (6, 12, 18 and 24) lengths standard | Mixed | 4.76 mm (0.1875") dia 450 or 900 mm (18 or 36") length 900 mm (36") leads; custom sizes available | 0.203 to 1.83 mm (0.008 to 0.072") dia 13 to 38 mm (0.5 to 1.5") lengths |
| **Features** | Integral terminal block provides quick wiring. | Flexible stripped wire or optional terminals (See STD and Mini connector probes). | Integral at 2 m (6') shielded cable with type A USB plug | Ungrounded, grounded or exposed junction. | Custom application | 3, 6, 10 sensing points on one probe custom number available | Small, needle-type probes in various diameters and lengths. |
| **Applications** | Inside thermowells and/or quick hook-ups for direct immersion compression fitting mounting | Imersion in liquid, gas or air, custom tips for soft solid penetration, fast response, surface and air measurement. | Probe immersion in liquid, gas. USB connection converts PC into temperature meter, data logger or chart recorder | General purpose and immersion. radius of no less than 3x the diameter of the sheath. | Pipe plug; autoclave; penetration; hollow tube; flow through profile | Furnaces, reactors, heat exchanges, air ducts. | Industrial, laboratory, manufacturing and chemical research. Various size needle probes suit temp. measurements in plants, liquids, semi-solids, food processing and natural sciences. Surfaces, and more. Model HYP-1 is autoclavable. Not suitable for human implantation. |
| **Sold As** | Individually. Contact Sales for special requirements. | **Page Model Feature** A-78, KTSS, molded A-79, TJ36, standard | Individual probes and free software included | Individually. Contact Sales for special sizes | Individually. | Individually. Custom sizes available. | Individually in 5 styles Comes with or without connectors. |

# Thermocouple

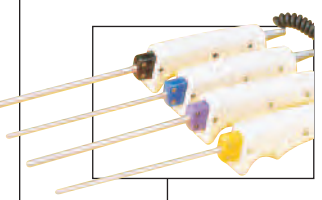


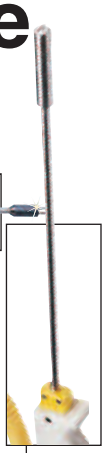












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| Series No. | 88000 | MP | SP-RL | KHSS-116G-RSC | HPS-CASS | SP-HF-K | HPS-HT-K |
|---|---|---|---|---|---|---|---|
| Price | $75 | $59 | $19 | $33 | $37 | $213 | $115 |
| Page No. | A-95 | A-112 | A-114 | A-117 | A-120 | A-124 | A-124 |
| Configuration | Special purpose surface probes | Magnetic mount | Various heavy-duty surface probes | Metal sheathed probes with easy-grip molded handle and coiled cable | Metal sheathed probes with integral handle | Metal sheathed high temperature foundry probes with integral handle | Metal sheathed high- temperature surface probe with integral handle |
| Available Calibration | K, E | J, K, T, E | K, E, J | J, K, T, E, N | J, K, T, E, N | J, K | J, K, E |
| Temperature Range (Configuration and application dependent) | Various-depends on model 200°C (400°F) to 815°C (1500°F) | Magnet retains 90% pull to 370°C (700°F) | Various-depends on model | Probe to 525°C (977°F) Handle to 115°C (239°F) | To 980°C (1796°F) | To 1260°C (2300°F) | To 1100°C (1994°F) |
| Insulation/ Sheathing | Various, including exposed TC element and SS sheaths | Stainless steel over-braided glass or PFA wire | Various, including exposed TC element and SS sheaths | Magnesium oxide insulation with SS or Inconel 600 sheathing | Magnesium oxide insulation with SS or Inconel 600 sheathing | Glass braid insulation with stainless steel sheathing | Magnesium oxide insulation with SS sheathing |
| Size (Non-standard lengths readily available) | Various-depends on model number | 25.4 x 38.1 x 25.4 mm (1 x 1.5 x 1") or 108 x 63.5 x 38.1 mm (4.25 x 2.5 x 1.5") | Various-depends on model number | 1.5 to 9.5 mm (0.062 to 0.375") dia 300, 450 or 600 mm (12, 18 or 24) lengths standard | 1.5 mm (0.06") dia 300 mm (12) probe length standard | 12.7 mm (0.5") dia 25 mm (1.0") dia tip 762 mm (30") probe length standard | 12.7 mm (0.5") dia 11.1 mm (0.04") dia tip 300 mm (12") probe length standard |
| Features | Variety of sensing heads for hundreds of applications. Models with swivel head design and replaceable elements | Magnetic, spring-mounted TC. Single or dual 12 lb pull magnets, leads, subminiature male connector and cable clamp included | Six rugged probe styles, PFA coated lead wire, black and anodized aluminum handle with handle probes | Integral molded handle retractable cable. General purpose probe tip standard; air and penetration tips available. Includes submin. male connector. | Integral pistol-grip handle Retractable cable. Heavy-duty. | Extra heavy-duty design with rugged aluminum handle. 1.8 m (6') SS overbraided lead wires. | Spring-loaded sensing element. Ceramic tip. Retractable cable with SMP connector. |
| Applications | General purpose, straight and right angle surfaces, rotating surfaces, insertion, small electronic part | Surface temperatures of magnetic material | General purpose, roller surface, needle tip, flexible tip and overbraid models. | General purpose, penetration and air probe tips available | General purpose immersion, custom tips available for penetration, fast response surface and air temperature measurements. | Heavy-duty tips penetrate surface measure casting surface temperature. | High-temperature surface measurements, stationary surfaces. |
| Sold As | Individually with SMP miniature male connector, one-foot retractable cable. | Individually. Single or dual magnet probe. Custom lead lengths available. | Individually with 1.8 m (6') PFA coated lead wire, SMP subminiature connector. | Probe, handle, cable and connector set. Contact Sales for special requirements. | Probe and handle set. Contact Sales for special requirements | Probe and handle set. Contact Sales for special requirements | Probe and handle set. Contact Sales for special requirements. |

# Selection Guide




| Series No. | RAT/SAT/BAT | NB1, 2, 3, 4 | Sanitary Flanged | M8 and M12 | TERP / SERP | CF, BT | ADR |
|---|---|---|---|---|---|---|---|
| **Price** | **$425** | **$57** | **$95** | **$21** | **$45** | **$25** | **$27** |
| **Page No.** | A-125 | A-136 | A-145 | A-151 to A-154 | A-159 | A-161 | A-164 |
| **Configuration** | Ceramic tube assemblies | Metal sheathed probes with industrial protection head and integral terminal block | 316 L Stainless Steel Metal sheathed and Tri-Grip™ flanged probe with 32 micro inch or better surface finish | Metal sheathed probe with M8 or M12 stainless steel or molded connector housing | PFA and plastic extruder probes | Metal sheathed bayonet and compression fitting probes | Metal sheathed adjustable depth probes |
| **Available Calibration** | R, S, B | J, K, T, E, N | J, K, T or E | K, J | J, K, T, E | J, K, T, E | J, K, T, E |
| **Temperature Range (Configuration and application dependent)** | To 1650°C (3000°F) | To 1650°C (3000°F) max 610°C (950°F) for PFS heads, 290°C (554°F) for plastic heads | -50 to 200°C (-58 to 392°F) | Probe sheath to 1000°C (1832°F) connector -50 to 90°C (-58 to 194°F) | To 900°C (1652°F) | To 480°C (896°F) | To 1150°C (2102°F) |
| **Insulation/ Sheathing** | Ceramic protection tube | Magnesium oxide insulation with SS or Inconel 600 sheathing | PFA insulation on wire inside the probe and silicon based potting material | MgO oxide insulation with 304 SS and Inconel sheathing | Braided glass wire with SS housing. Hastelloy tip on PFA models | Glass braid on wire inside stainless steel probe | Glass braid on wire inside SS tip |
| **Size (Non-standard lengths readily available)** | 6.4 or 9.5 mm (0.25 or 0.375" dia) 300 mm (12") probe standard length | 1.5 to 6.0 mm (0.062 to 0.25") dia probe. Various diameter wells as small as Various lengths 12.7 mm (0.5"). 300 mm (12") length probe standard | ¼" diameter standard, 3 to 6" lengths standard, Custom lenghts available | 3.0 and 6.0 mm (0.125 to 0.250") diameters, 150 to 1500 mm (6 to 60") lengths | 3.2 mm (0.125") dia tip; 75 or 150 mm (3 or 6") barrel lengths; flush, 6, 13, 19 or 25 mm (0.25, 0.5, 0.75 or 1") tip lengths | **Bayonet models:** 4.7 mm (0.188) dia 57 and 89 mm L (2.25 and 3.5") probe. **Compression fitting:** 50 and 100 mm L (2 and 4") probe. Straight or 90° bend probes. | 4.7 mm (0.188") dia tip up to 75 mm (3") tip length 1500 mm (60") cable length standard |
| **Features** | Includes NB1-2 head | Choice of industrial heads with integral terminal blocks. Fixed/spring loaded. Choice of thermowell size and material. Head can house TX91A. | ¾ to 4" 16 AMP Tri-Grip ™ Process Flanged probe with 32 micro inch or better surface finish 3A Sanitary approved Industrial Head, Cable leads, M12 connector or Thermowell configurations | Integral metal threaded 8 mm x 1 or 12 mm x 1 fitting with thermocouple compensated pins | Rigid or flexible connection. Various tip and barrel lengths. Single or dual elements. | Variety of probe lengths. 6.4 mm (0.25") flexible stainless steel cable 304 or 321 SS construction. | Flexible armored cable with sliding lock fitting. Spring action catch holds probe firmly in place. Grounded or ungrounded junction. |
| **Applications** | High-temperature oxidizing or reducing atmospheres. | Heavy-duty, industrial environments. Sheathed or non-sheathed thermocouple elements fit into thermowell if necessary. | Food, Dairy, Beverage, Bio- Pharmaceutical, Chemical and Ink processing | Process and automation equipment. Design provides a compact, secure vibration resistant connection | PFA or plastic extruders. | Immersion, bored samples, surfaces. | Immersion, adjusts to any depth. Spring loaded tip presses against the bottom of a well for rapid heat transfer. |
| **Sold As** | Individually | Individually with threaded fitting and head. Variety of thermowell sizes, designs and materials. Contact Sales for special requirements. | Individually | Individually | Individually with OSTW standard size male connector. Contact Sales for special requirements. | Individual spring-loaded bayonet or compression fitting styles. Contact Sales for special requirements. | Individually with permanently attached or removable lock fittings. Spade lugs or quick disconnect termination. |

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