

pyromation



Temperature Sensors

Thermocouples

MgO Insulated Sensors

RTD Assemblies

Food and Dairy Sensors

Thermowell Assemblies

Special Purpose Sensors

Thermocouple Wire

Accessories

Instruments



Our Mission Statement



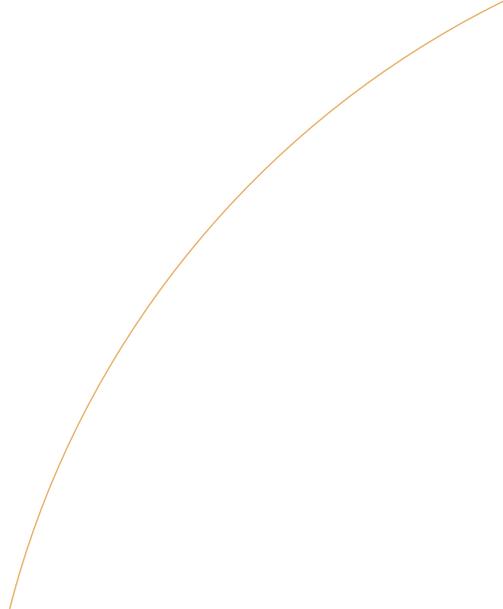
Pyromation's mission is to provide a level of commitment to our customers beyond that found anywhere in our industry. Our level of commitment is demonstrated daily in our efforts to provide high quality products and services, tailored to the customers' wants, designed to meet their needs, produced in any quantity, and delivered to meet their schedule. With this brochure, we invite you to learn more about our product lines, people and capabilities.

our company philosophy



Pyromation's production teams operate within manufacturing cells dedicated to specific product groups to produce quality products on a timely basis. Cellular manufacturing allows for an efficient work flow of orders for standard, special purpose or prototype temperature sensors.

The Cornerstone Pledge of our quality assurance program begins within our manufacturing cells. Raw materials, having passed a rigid incoming inspection, are stocked in these cells and are processed into finished products. "In-process inspections" and a final functionality test ensure that our sensors meet accepted temperature measurement standards.



YOUR INSIDE SALES PARTNERS

Pyromation's Inside Sales staff is assigned specific geographical territories to quickly become familiar with our customers' special needs and requirements. This means you'll speak with the same Sales Engineer every time and consequently, you can depend on getting sales assistance based on your needs.

Our salespeople, all with hands-on, in-house production experience and field application knowledge, can provide you with information about our products and their process applications, as well as help you select a standard or special product to solve your specific problem. They are your partners and your first link to the successful use of our products.

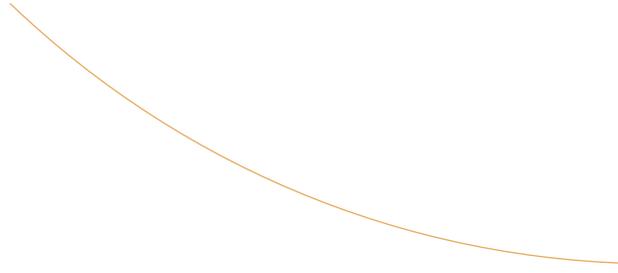
YOUR ENGINEERING SUPPORT TEAM

Pyromation's staff of industry-experienced engineers are dedicated to the constant improvement and development of products. Our engineers design and build specialized machinery and tooling to improve manufacturing techniques and reduce labor costs. Our use of CAD design systems, combined with in-house laboratory testing and evaluation, allow the timely development of new products and materials to be brought to the marketplace, with proven reliability, before they are used in your plant.

Our Engineering team's capabilities, knowledge, experience and on-site process evaluations provide you with support and the best possible temperature measurement results.

YOUR LOCAL REPRESENTATIVE AND STOCKING DISTRIBUTOR

Pyromation has factory trained Representatives and Stocking Distributors located throughout North America and in many countries around the World. Their assistance and product inventory is at your disposal and is only a phone call away!



Pyromation's special customer services



EXPRESS ORDER SHIPMENTS

If your order calls for non-stock manufactured products and requires an earlier than normal delivery, you can place an Express Order with either same day, 24 or 72 hour guaranteed shipment. Express orders can be placed with our Sales Department anytime during normal office hours for any reasonable quantity of temperature sensors or related products. Express orders should be placed via telephone to confirm and guarantee their shipping date. Twenty-four hour express orders normally ship the next workday following the date of order entry, while 72 hour express orders normally ship on the third workday following the date of order entry.

PACKAGING AND SHIPPING

Pyromation's shipping department works to accommodate your needs. If your shipment requires special handling, packaging, crating, customs documents, express delivery or any other specific requirement, we are equipped to meet your needs. Experience gained in shipping thousands of packages each week allows us to deliver the most fragile or the bulkiest products with the utmost confidence that your order will arrive in perfect condition. No matter how large or small, your order can be shipped via normal ground, air or sea routes, or a regular or overnight delivery schedule ... the choice is yours.

INTERNET CAPABILITIES

Our web page offers extensive technical information and complete product information. We offer options to place orders, check real-time order status, shipment tracking, RMA tracking, and other account status information at <http://online.pyromation.com>

SENSOR AND INSTRUMENT CALIBRATION

Our NVLAP Accredited Metrology Laboratory provides comparison temperature calibrations from $-196\text{ }^{\circ}\text{C}$ to $1450\text{ }^{\circ}\text{C}$ ($-321\text{ }^{\circ}\text{F}$ to $2642\text{ }^{\circ}\text{F}$) on the International Temperature Scale of 1990 (ITS-90) for temperature sensors and instruments.

Pyromation's Laboratory managerial staff and technical personnel have documented education, training, technical knowledge and experience for their assigned functions. The environment in which these functions are performed is constantly monitored and controlled with regard to all appropriate conditions and access is strictly defined and controlled.

Our Laboratory equipment includes fluidized baths and tube furnaces, standard platinum resistance thermometers, and types "B" and "S" thermocouples. All standards and calibrations are traceable to the National Institute of Standards and Technology (NIST) or have been derived from accepted values of natural physical constants, or by the ratio of self calibration. Our reports are complete and include as found and as left data when appropriate.

SPECIAL MACHINED PARTS

If you need small or large quantities of temperature sensors or prototypes that require special machined parts, you can count on us to deliver them in a timely manner. Our CAD-CAM capable in-house machine shop—complete with metal cutting, threading, shaping and finishing machinery, and stocked with a variety of raw materials—complements our Engineering, Design, and Production Departments to manufacture sensors with special component parts. This is another service we provide with our customers' needs in mind.

NVLAP[®]

NVLAP LAB CODE 200502-0



INDUSTRIAL THERMOCOUPLE ELEMENTS, PROTECTION TUBES AND ASSEM-

Pyromation offers a large variety of thermocouple components and assemblies for use in virtually all high temperature heavy industrial process applications. These components and assemblies are found in heat treating, forging, smelting, metal melting, utility and waste boilers, incineration, cogeneration, and many other severe use processes. Inquiries are invited for the standard components and assembly styles as listed below, as well as for special materials and constructions for use in difficult process applications.



THERMOCOUPLE ELEMENTS

BASE METAL TYPES: J, K, T, E, N

NOBLE METAL TYPES: R, S, B

OTHER TYPES: M, C

ELEMENT OPTIONS: Bare or ceramic insulated, wire gauge sizes from 30 to 8 gauge, straight or angle, single or duplex, standard or special limits of error materials, twist welded hot junctions, insulated hot junctions



THERMOCOUPLE PROTECTION TUBES

METAL ALLOYS: Carbon Steel, Inconel 600 and 601, 304, 316, 446 Stainless Steel, HR-160, Cast Iron

CERAMIC and COMPOSITE MATERIALS: Mullite, Alumina, Silicon Carbide, Vesuvius, Cerite®, Metal Ceramic



PROTECTION TUBE OPTIONS: Open or closed ends, pipe sizes from 1/4" to 1" NPT with schedule 40, 80 or 160 wall, 3/8" to 1(1/4)" OD ceramic tubes, welded mounting bushings, mounting flanges, nipple and sleeve mountings, hex mounting fittings, temperature check-port fittings



COMPLETE THERMOCOUPLE ASSEMBLIES

ASSEMBLY CONFIGURATIONS: Straight and Angle
Single or Double Tube
Pipe Extended
Union - Nipple Connected
Single or Duplex Element



ASSEMBLY OPTIONS: Aluminum, Cast Iron, 316L SS, terminal heads, Cast Iron/Aluminum or 316L SS explosion-proof terminal heads, stainless steel identification tags



MgO INSULATED THERMOCOUPLE ASSEMBLIES

Pyromation offers a wide variety of Magnesium Oxide insulated thermocouples, commonly referred to as MgO thermocouples. They are used in numerous process and laboratory applications. Their many desirable characteristics make them a good choice for general and special purpose use. They are available in most thermocouple element types, numerous sheath diameters and materials. Their ruggedness and moderately high temperature characteristics make these thermocouples a popular choice for a host of temperature measuring applications.



MgO THERMOCOUPLE ELEMENTS

BASE METAL TYPES: J, K, T, E, N

NOBLE METAL TYPES: R, S, B

ELEMENT OPTIONS: Standard and special limits of error, grounded, ungrounded or exposed junctions, single and multiple element construction, standard and high purity MgO insulation

LEAD TERMINATION OPTIONS: Plugs, jacks, spade lugs, and special connectors

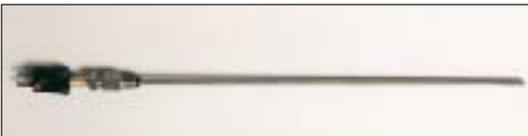


MgO THERMOCOUPLE SHEATHS

SHEATH MATERIALS: 304, 310, 316, 446 Stainless Steel, Inconel 600, Nicrobell, H-2300

SHEATH DIAMETERS: .032, .040, 1/16", 1/8", 3/16", 1/4", 3/8", OD's and other fractional or metric sizes

SHEATH OPTIONS: Compression fittings, welded bushings, flanges, bayonet fittings and weld pad mountings, sheath bends and Teflon® coating



COMPLETE MgO THERMOCOUPLE ASSEMBLIES

SHEATH TERMINATION CONFIGURATIONS: Thermocouple Plugs and Jacks, Standard Screw Cover and Explosion Proof Heads, Miniature Heads, Leadwire and Special Constructions

ASSEMBLY OPTIONS: Standard or miniature size plugs and jacks, choice of 8 connecting head materials, high temperature transition fittings, in-line same size transitions, leadwire with several choices of insulation, stranded or solid conductors, and leads with stainless steel overbraid or flexible armor



LEADWIRE TERMINATION OPTIONS: Plugs, jacks, spade lugs, and specialty connectors

PLASTICS, RUBBER and PACKAGING INDUSTRIES TEMPERATURE SENSORS

Pyromation's temperature sensors for the Plastics, Rubber and Packaging industries listed below are those most commonly used in these three industries. These temperature sensors are provided with either thermocouple or RTD measuring elements and are typically supplied with fiberglass leads inside 316 stainless steel sheaths. All thermocouple and platinum RTD element assemblies are temperature rated up to 482 °C (900 °F) except type T thermocouples, which are rated up to 371 °C (700 °F).



MEASURING ELEMENTS

THERMOCOUPLE ELEMENT TYPES:

J, K, T, E, N

ELEMENT OPTIONS:

Standard or special limits of error, grounded or ungrounded hot junctions, single and duplex element constructions

RTD ELEMENT – MATERIALS:

Platinum, Copper, Nickel, Nickel-Iron
Platinum (100, 200, 500, 1000 ohm),
Copper (10 ohm), Nickel (120 ohm)
and Nickel-Iron (604 ohm)

VALUES:

ACCURACIES:

Platinum ($\pm 0.12\%$ or $\pm 0.1\%$ at 0 °C)
all others (from $\pm 0.2\%$ to $\pm 0.5\%$)

ELEMENT OPTIONS:

2, 3, 4 wire per element construction, single and duplex elements, wire wound or thin film element types



THERMOCOUPLE and RTD SHEATHS

SHEATH MATERIALS:

316 Stainless Steel Standard
(other materials available)

SHEATH DIAMETERS:

1/8", 3/16", 1/4" OD's and other fractional or metric sizes

SHEATH OPTIONS:

Straight, 45° or 90° bends, compression fittings, fixed and adjustable bayonet fittings and optional position indicating bayonet caps and metric bayonet caps are available from stock



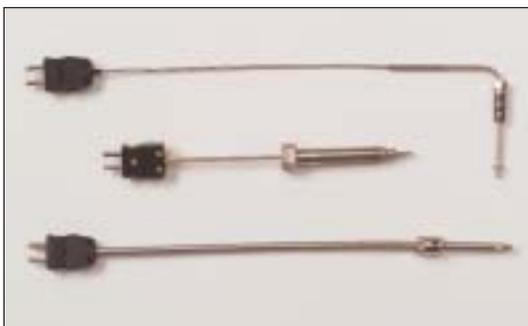
ASSEMBLY CONFIGURATION

TYPES:

Fixed and adjustable bayonet fitting, compression fitting, spring and armor adjustable immersion, spade, ring, melt bolt, threaded and nozzle melt, nozzle heat sink, pipe clamp style, magnetic attachment type

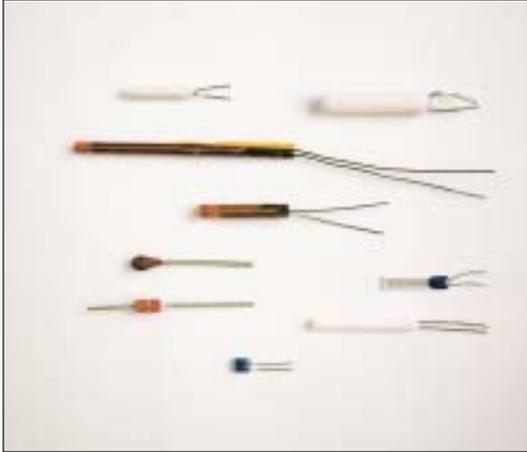
ASSEMBLY OPTIONS:

Sheath and leadwire terminations with miniature or standard size plugs, jacks and special connectors. Leadwire with solid or stranded conductors, several choices of insulation, and with stainless steel overbraid or flexible armor



RTD TEMPERATURE SENSOR ASSEMBLIES

Pyromation's general purpose RTD temperature sensor assemblies are used in a multitude of process and HVAC applications. Assemblies are offered with a choice of element materials, values and accuracies, a choice of element lead-wire configurations, and a choice of sheath materials and diameters. Many assemblies are supplied in drilled or flanged wells, and all assemblies can be supplied with Pyromation's low cost integral head mounted RTD transmitter. RTD temperature sensors for special purpose applications can be found listed in the "Special Purpose" section of this brochure.



RTD ELEMENTS

MATERIALS:	Platinum, Copper, Nickel, Nickel-Iron
VALUES:	Platinum (100, 200, 500, 1000 ohm), Copper (10 ohm), Nickel (120 ohm), Nickel-Iron (604 ohm)
ACCURACIES:	Platinum ($\pm 0.12\%$, $\pm 0.1\%$, $\pm 0.03\%$, $\pm 0.01\%$ at 0°C), all others (from $\pm 0.2\%$ to $\pm 0.5\%$)
ELEMENT OPTIONS:	2, 3, 4 wire per element construction, single and duplex elements, wire wound or film type elements



RTD SHEATHS

SHEATH MATERIALS:	316 Stainless Steel Standard (other materials available)
SHEATH DIAMETERS:	1/8", 3/16", 1/4", 3/8", OD's and other fractional or metric sizes
SHEATH OPTIONS:	Compression fittings, welded bushings, flanges, bayonet fittings, sheath bends and Teflon® coating of sheath



COMPLETE RTD ASSEMBLIES

SHEATH TERMINATION CONFIGURATIONS:	RTD Plugs and Jacks, Screw Cover and Explosion Proof Heads, Miniature Heads, Leadwires and Special Constructions
ASSEMBLY OPTIONS:	High or low temperature construction, standard or miniature size plugs and jacks, choice of 8 connecting head materials, leadwire with multiple choices of insulation, leads with stainless steel overbraid or flexible armor
LEADWIRE TERMINATION OPTIONS:	Plugs, jacks, spade lugs, and special connectors



INSERTION PROBES

Thermocouple and RTD Probes for Penetrating Meat, Fish, Poultry and Other Food Products



AVERAGING SENSOR

RTD Sensor to Measure Cross-Sectional Temperatures in Large Air Ducts



CIP SANITARY CONNECTED

High Accuracy RTDs for Use in Food and Pharmaceutical Sanitary Process Applications



WET/DRY BULB TANKS

Psychrometric Temperature and Humidity Measurement in Smokehouses and Lumber Drying Kilns



MAGNET SENSOR

Spring Loaded Magnet Attached Thermocouples for Metal Surface Temperature



HIGH TEMPERATURE ASSEMBLIES

Thermocouples for High Temperature Service

SPECIAL PURPOSE TEMPERATURE SENSORS

Pyromation's expertise in engineering design, skilled machining capabilities, and manufacturing abilities allow us to offer our customers custom designed temperature sensors to solve those difficult temperature measurement problems found in many industrial process applications. Many of the products depicted are specific process standards, and others are customer driven special designs. Our engineering, sales and production departments are at our customers' disposal to provide them with solutions to their unique temperature measurement problems.



NON-INTRUSIVE TANK SENSORS
RTD'S or Thermocouples to measure temperatures inside single wall or jacketed mixing tanks.



THERMOSTAT TEMPERATURE SENSOR
RTD's or Thermocouples for room temperature measurements.



ENGINE THERMOCOUPLES
Thermocouples to measure cylinder head exhaust temperatures.



TRI-CLAMP TANK SENSOR
RTD's or Thermocouples to measure tank temperatures with a sanitary tri-clamp connection.



RUBBER COMPOUND MIXER SENSORS
Thermocouples with Chrome Coated Tips for Abrasive Service



HEAT TRACING SENSORS
RTDs or Thermocouples with radius pads for pipeline temperature measurements.

DRILLED AND FLANGED THERMOWELLS

Pyromation offers a wide variety of drilled and flanged thermowells to protect temperature sensing elements from the corrosion, high pressure and high velocities that can be present in many industrial process applications. Drilled thermowells are typically manufactured from single piece bar-stock without welds. Flanged thermowells typically have their stems manufactured from single piece bar-stock and have flanges welded onto the stem. Both styles are available in several different physical configurations, in a variety of materials, and with a choice of bore sizes and mounting threads or flange sizes. Thermowells are available as separate components, or as a part of a complete temperature sensor assembly.



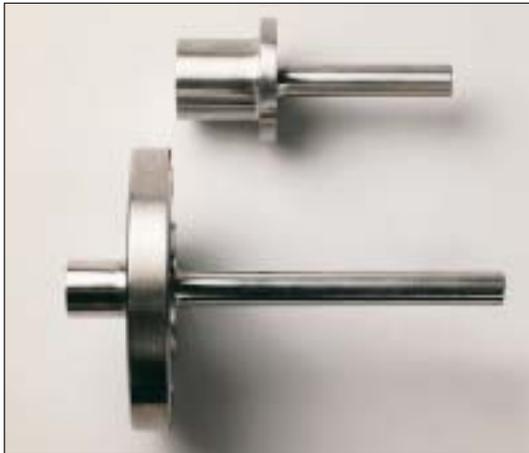
DRILLED THERMOWELLS WITH THREADED MOUNTINGS

STYLES:

Straight, Stepped or Tapered Stems
Limited Space Wells
Test Thermowells

WELL OPTIONS:

Standard or heavy duty construction, 1/4" or 3/8" ID bore sizes, with or without lagging extensions, 1/2", 3/4" or 1" NPT mounting threads, protective cap and chains



FLANGED THERMOWELLS

STYLES:

Straight, Stepped or Tapered Stems,
Van Stone Wells

WELL OPTIONS:

Standard or heavy duty construction, 1/4" or 3/8" ID bore sizes, raised or flat faced flanges, 1", 1 1/2" or 2" flange sizes, 150 through 1500# flange ratings, protective cap and chains



DRILLED WELD-IN THERMOWELLS

STYLES:

Standard Tapered Stem Weld-In
Socket Weld
Sanitary Weld-In

WELL OPTIONS:

1/4" or 3/8" ID bore sizes, with or without lagging extensions

COMMON WELL MATERIALS

Brass, Carbon Steel, Carpenter 20, 304 and 304 LC Stainless Steel, 316 and 316LC Stainless Steel, 446 Stainless Steel, Hastelloy B, C, and X, Incoloy 800, Inconel 600, Monel, Nickel, A105, Titanium and Teflon®

TEMPERATURE SENSOR CONNECTING HEADS

Pyromation's connecting heads are recognized as the Processing Industry's standard. We offer several different styles. Our screw cover heads are offered in five different metal alloy configurations and two thermoplastic materials. Pyromation also offers an aluminum flip top head as an alternative style. These heads meet several different NEMA requirements, including two UL® listed explosion proof offerings, and they are designed to accept a choice of six different ceramic terminal blocks or our patented RTD transmitter. The flip-top style heads also accept DIN standard terminal blocks and transmitters. A miniature nickel plated steel head is also available with a choice of terminal block configurations. All heads are available as an integral part of our temperature sensor assemblies or as separate component parts.



METAL ALLOY CONNECTING HEADS

COMMON SPECIFICATIONS:

Stainless steel chains, pins, and hardware, gasketed screw covers, accepts Series 340 ceramic terminal blocks or Pyromation transmitters

MATERIAL:

316L Stainless Steel
Cast Iron
Aluminum
Aluminum Flip top

Miniature Nickel Plated Steel

PROCESSING OPENING:

1/2" or 3/4" NPT
1/2" thru 1" NPT
1/8" thru 1" NPT
1/2" or 3/4" NPT

1/8" or 1/4" NPT

CONDUIT OPENING:

3/4"NPT
3/4"NPT

Grommet or

Compression Fitting



EXPLOSION PROOF UL® LISTED CONNECTING HEADS

COMMON SPECIFICATIONS:

Stainless steel chains and pins, gasketed screw covers, accepts Series 340 ceramic terminal blocks or Pyromation transmitters

MATERIAL:

316L Stainless Steel,
Cast Iron Body/Aluminum Cap

PROCESSING OPENING:

1/2" or 3/4" NPT

CONDUIT OPENING:

3/4" NPT

THERMOPLASTIC CONNECTING HEADS

COMMON SPECIFICATIONS:

Stainless steel chains and pins, O-ring sealed screw covers, integral self contained terminals or will accept Series 340 ceramic terminal blocks or Pyromation transmitters

MATERIAL:

Polypropylene, Delrin

PROCESSING OPENING:

1/2" NPT

CONDUIT OPENING:

3/4"NPT

STEATITE TERMINAL BLOCKS

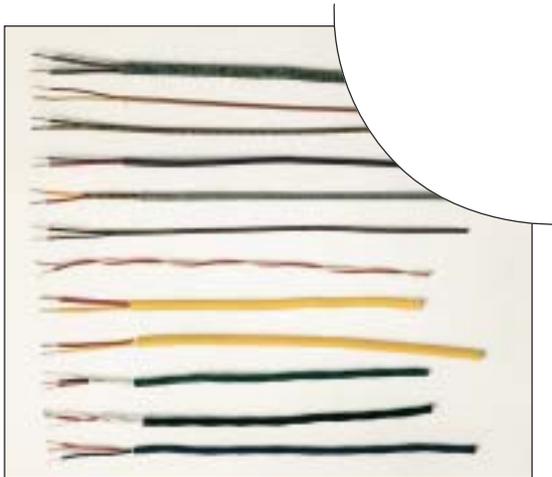


BLOCK TYPE	NUMBER OF TERMINALS	MAX. WIRE GAUGE/SCREW TYPE	SPRING LOADING CAPABILITY
Single	2	8 Gauge (8-32 SS)	No
Duplex	4	8 Gauge (8-32 SS)	No
Triplex	2, 3, 4 or 6	10 Gauge (5-40 SS)	Yes

ELECTRICAL RATING: NEC Class 2

INSULATED THERMOCOUPLE & THERMOCOUPLE EXTENSION WIRE and CABLE

Pyromation offers thermocouple grade and extension grade wire in multiple wire gauge sizes, stranded or solid conductors, standard or special limits of error, with a wide selection of insulation materials, and with a choice of metal overbraid materials. Many combinations are available from stock with same day shipments. Special constructions are available upon request.



GENERAL SPECIFICATIONS

THERMOCOUPLE TYPES: J, K, T, E, N, R, S, B, C

WIRE GAUGE RANGE: 14 through 30

CONDUCTOR TYPES: Solid or Stranded

INSULATION MATERIALS: Single and Double Fiberglass, High Temperature Fiberglass, Teflon® (TFE, FEP, PFA, PTFE), Ceramic Fiber, Kapton, Vitreous Silica Fiber, Tefzel ServTex Braid, PVC

MULTIPAIR THERMOCOUPLE EXTENSION CABLE

Pyromation's multipair thermocouple extension cable is offered with a choice of the number of cabled pairs, individually or overall shielded pairs, and in all thermocouple calibration types. Cables and individual pairs are ANSI/ASTM color coded with pairs individually numbered; cables are supplied with copper drain and insulated copper communication wire, and with jacket splitting ripcord. Special constructions are available upon request.



GENERAL SPECIFICATIONS

THERMOCOUPLE TYPES: J, K, T, E, N, R, S, B, C

CONDUCTOR SIZE and TYPE: 20 Gauge - Solid

AVAILABLE PAIRS: 4, 8, 12, 16, 20, 24

INSULATION (PAIRS/JACKET): Extruded PVC

PAIRS SHIELDING: Aluminized Polyester Tape

CABLE BUNDLE SHIELDING: Aluminum Backed Mylar Tape

RTD WIRE and CABLE

Pyromation offers RTD wire and cable for general process use. Offerings include choices of the number of conductors, conductor sizes, insulating materials and optional metal overbraid. Special constructions are available upon request.

GENERAL SPECIFICATIONS

NUMBER OF CONDUCTORS: 2, 3, 4, 6

STRANDED COPPER CONDUCTOR SIZES: 20, 22, 24, 28 Gauge

CONDUCTOR PLATINGS: Silver, Nickel or Tinned Copper

INSULATION MATERIALS: PVC, Teflon® (TFE, FEP, PTFE), Fiberglass



INSTRUMENTATION

Pyromation's instrumentation for temperature sensors and other process sensing devices allows you to select and transmit process variable signals, indicate process variable conditions, and provide process condition alarms when desired.

TEMPERATURE TRANSMITTERS

Pyromation's patented temperature transmitters have found wide acceptance in all processing industries due to their high reliability, small size and low cost. The transmitter's size allows integral mounting in Pyromation's screw cover terminal heads and most other enclosures. Transmitters are available as part of a temperature sensor assembly or as stand alone units. We offer optional DIN rail clips for convenient mounting.



TEMPERATURE TRANSMITTERS

Pyromation temperature transmitters are 2-wire transmitters with analog output.

- MODELS:**
- Series 440 Programmable RTD Temperature Transmitter**
Inputs: Pt100 2 or 3 wire RTD sensor
Head or DIN Rail Mounted
 - Series 441 Programmable Temperature Transmitter**
Inputs: Pt100, Pt500, Pt1000, Ni100, Ni500, NI1000 2, 3 or 4 wire RTD sensor, Thermocouples, Resistance or millivolt
Head or DIN Rail Mounted
 - Series 442 Programmable HART® Temperature Transmitter**
Inputs: Pt100, Pt500, Pt1000, Ni100, Ni500, NI1000 2, 3 or 4 wire RTD sensor, Thermocouples, Resistance or millivolt
HART® Protocol
Head or DIN Rail Mounted
 - Series 450 Programmable Integral Temperature Transmitter**
Inputs: Pt100 4 wire RTD sensor
Compact design ideal for measurement in tanks and pipes



SELECTOR SWITCHES

Pyromation's panel mount selector switches can accept up to 12 separate signals from thermocouples or 3 wire RTD sensors. Any one of these signals can be selected to feed an input into an indicating or data recording instrument. Cases are available in either 1/8 or 1/4 DIN size configurations.

- FEATURES:**
- 12 Input Points (T/C or 3 Wire RTD)
 - Non-Shorting Switch
 - (Break before make)

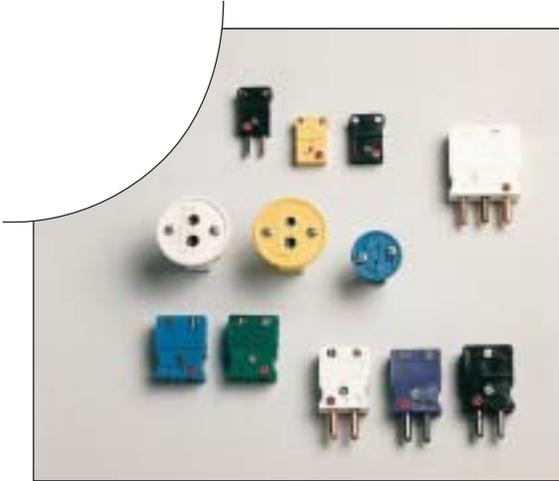


DIGITAL PROCESS INDICATORS

- MODELS:**
- Series 610**
1/16 DIN Controller, Flexible Input/Output Options, Large LED Display, One Latchable Relay is Standard, Heat/Cool Operation, Two Process Alarms, Loop Alarm, Auto/Manual Tuning, PC Configuration, Process Variable Retransmit Option
 - Series 810**
1/8 DIN Indicator, Flexible Input/Output Options, Large LED Display, One Latchable Relay is Standard, Four Digit LED Display, Up to 3 Alarms, Transmitter Power Supply Option, Min/Max Value Hold, Engineering Units, PC Configuration, Process Variable Retransmit Option

TEMPERATURE SENSOR ACCESSORIES

Pyromation offers a large selection of complementary temperature sensor accessories for use with thermocouple and RTD temperature sensing assemblies. Offerings include quick disconnect plugs and jacks, multiple circuit jack panels and enclosures, sensor mounting fittings, compensated terminal blocks, bare thermocouple wire, ceramic insulators, and pyrometer lances and replacement lance tips.



CONNECTORS AND MULTI CIRCUIT JACK PANELS

PLUG AND JACK CONNECTORS:

Thermocouple Compensated
Uncompensated Copper (RTD)
Standard and Miniature Sizes
2 or 3 Pin Connectors
Duplex Connectors
Jab-In Styles

OPTIONS:

350 °F to 800 °F temperature ratings,
hollow or solid pin construction, sheath
and leadwire mounting hardware,
protective rubber boots



TEMPERATURE SENSOR MOUNTING HARDWARE

MOUNTING FITTINGS:

One-Time Adjustable Compression Fittings
Re-Adjustable Compression Fittings
Single and Double Ended Threaded
Hex Fittings
Spring Loaded Well Fittings
Threaded and Adjustable Flanges
Bayonet Fittings

OPTIONS:

For most standard sheath diameters,
mounting threads for all standard NPT
and metric thread sizes, brass and
stainless materials, Teflon®, neoprene
or lava compression fitting ferrules



MISCELLANEOUS ACCESSORIES

ACCESSORY ITEMS:

Bare Thermocouple Wire
Ceramic Insulators
Compensated Terminals and
Terminal Blocks
Molten Metal Lances and Replacement
Thermocouple Tips
Pipe Fittings
Plug and Jack Hardware



Quality in Every Degree®

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