

# Product Guide

# About Us

## The Aircom Way

**We don't create the demand, we meet it.** Aircom is a company that believes meeting industry demands first requires relationships, trust, and a sense of urgency. We meet that demand with a system we call The Aircom Way. The result is a flexible approach that is executed by a team of dedicated problem solvers who are driven to excel.

Situated in Edmonton, Alberta Canada, Aircom has been serving the process control industry for over 25 years. Aircom's products reach process environments

all around the world. With a niche in instrumentation manufacturing and distribution, Aircom's successes come from our customers' successes.

### What Makes Us Unique

- » Culture of Urgency
- » We are Flexible
- » Trusted Problem Solvers

“Our passion is building a great company through trust and relationships.”

### Industries We Serve

Our niche is instrumentation manufacturing and distribution. The industries Aircom serves share the need for automation and process control. Aircom's products are in demand across all these industries.



- |                   |                     |                              |                               |
|-------------------|---------------------|------------------------------|-------------------------------|
| » Oil & Gas       | » Water & Waste     | » Government & Institutional | » Chemicals & Pharmaceuticals |
| » Power           | » Food & Beverage   | » Metals                     | » Manufacturing               |
| » Forest Products | » Mining & Minerals |                              |                               |



Product Guide v1

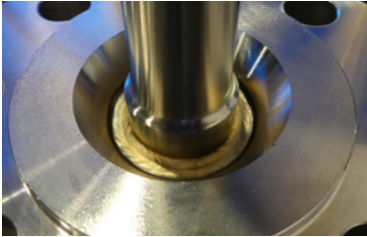


Use this QR code to start a conversation with us today!

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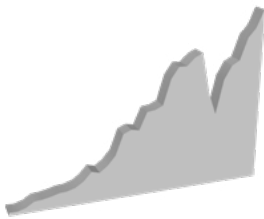
# About Us

## Our Core Values



### Excellence

We demonstrate excellence daily in the way we respond to and service the needs of our customers. Our values drive us to do what is best for the customer. We work hard to earn our reputation of excellence because it represents the quality of the products we create, repair, enhance, and touch every day. Excellence defines Aircom, our people, our products, and our service.



### Dedication

We demonstrate dedication daily when we show up prepared to do our best, in the way we carry out safe work practices, and in the way we are committed to creating a healthy workplace. Our dedication is represented by our years of service to the company and our industry. We go the extra 1.61 km to achieve excellence. Dedication defines our commitment to the people we work with and our community.



### Family

We demonstrate the value of family daily when we are respectful and conduct ourselves with integrity. We strive to create a safe, fun and healthy work environment for our people, because they are family. We share our successes and learn from our mistakes. Family defines the people we share our lives with personally and professionally.



### Drive

We demonstrate our drive daily when we help others. When someone else succeeds, we succeed. We compete every single day. Drive is the result of practicing our QMS and Core Processes consistently. Our drive is represented by the lean forward innovative attitude we exhibit. Drive defines our growth.

“We Don't Create the Demand  
– We Meet It.



# Thermocouple Sensor Probes & Assemblies

## Overview

Thermocouples are durable, fast responding and very simple temperature sensors. They are used across multiple industries to provide temperature measurement for indication and process control.

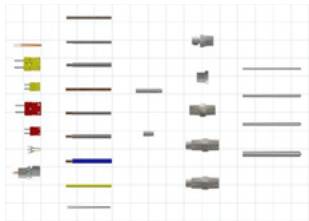











Aircom Instrumentation Ltd. is a thermocouple sensor probe and assembly manufacturer that can create thermocouples to meet customer specifications. The below examples are just some of the many thermocouple configurations available from Aircom.

## What makes Aircom different

- Quick lead times with RUSH options available
- Easy to use product catalog for configuration
- Flexibility for custom manufactured thermocouples
- Made in Alberta, Canada
- Over 25 years of thermocouple manufacturing experience and problem solving
- CSA hazardous location approved designs

**Aircom**  
Instrumentation Ltd.



<b>Custom Thermocouple Probes</b> 	<b>Teflon Lead Wire Probe</b> 	<b>Flex Armor Probe</b> 	<b>Fittings and Connectors</b> 
<b>Bayonet Style</b> 	<b>Thermowell Assembly</b> 	<b>Replacement Assembly</b> 	<b>Fixed Fitting Assembly</b> 
<b>Direct Mount Transmitter</b> 	<b>Poly Flex Armor Assembly</b> 	<b>Flex Armor Fixed Fitting</b> 	 <p>Use this QR code on your smart phone to view this catalog section on our website</p>



# RTD Sensor Probes & Assemblies

## Overview

RTD's or resistance temperature detectors are very accurate and repeatable temperature sensors. They are used across multiple industries to provide temperature measurement for indication and process control.

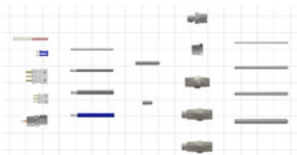











Aircom Instrumentation Ltd. is a RTD sensor probe and assembly manufacturer that can create RTDs to meet customers specifications. The below examples are just some of the many RTD configurations available from Aircom.

## What makes Aircom different

- Quick lead times with RUSH options available
- Easy to use product catalog, for configuration
- Flexibility for custom manufactured RTDs
- Made in Alberta, Canada
- Over 25 years of RTD manufacturing experience and problem solving
- CSA hazardous location approved designs

**Aircom**  
Instrumentation Ltd.



<p>Custom RTD Probes</p> 	<p>Teflon Lead Wire Probe</p> 	<p>Flex Armor Probe</p> 	<p>Sensor Probe Fittings</p> 
<p>Thermowell Assembly</p> 	<p>Flanged Thermowell Assembly</p> 	<p>Replacement Assembly</p> 	<p>Fixed Fitting Assembly</p> 
<p>Direct Mount Transmitter</p> 	<p>Poly Flex Armor Assembly</p> 	<p>Flex Armor Fixed Fitting</p> 	 <p>Use this QR code on your smart phone to view this catalog section on our website</p>





# Thermowells & Protection Tubes

## Overview

Thermowells and protection tubes are machined and welded products used to protect temperature instrumentation.

Aircom Instrumentation Ltd. is a thermowell and protection tube manufacturer that can create these products to meet customers specifications.

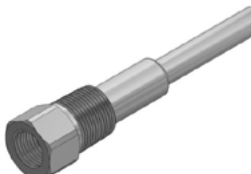

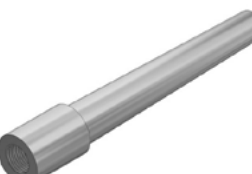
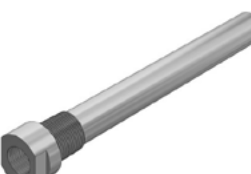

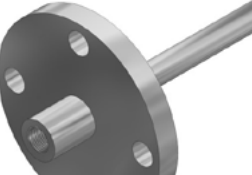


The below examples are just some of the many thermowell and protection tube designs and configurations available from Aircom.

## What makes Aircom different

- Quick lead times with RUSH options available
- Easy to use product catalog for configuration
- Flexibility for custom alloy thermowells
- Made in Canada
- Over 25 years of thermowell manufacturing experience and problem solving
- Multiple design Canadian Registration Numbers **CRN**

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Threaded Straight 	Threaded Tapered 	Threaded Stepped 	Lagging Extension 
Large Bore 	Socket Weld 	Wrench Flat 	Van Stone 
Flanged Straight 	Flanged Tapered 	Protection Tubes 	 Use this QR code on your smart phone to view this catalog section on our website



# Surface Mount Temperature Sensors

## Overview

Boiler Tube Block (BTB) Thermocouple



Weld & Surface Pad Temperature Sensor



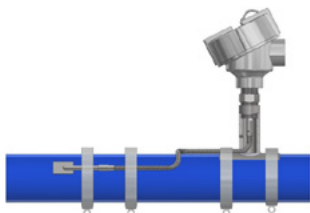
Magnetic Temperature Sensor



High Strength Magnetic Temperature Sensor



Pipe Shoe Riser Assembly



Pipe Saddle Assembly



Heat Trace RTD's



Surface mount temperature sensors consist of a temperature sensor element that is constructed into an assembly purposed for measuring the surface temperature of an object.

### Features:

- Temperature sensor elements are not subject to the direct process conditions
- Temperature sensor placement is not limited to a threaded or flanged entry point
- Sensor location can be changed if using a non-welded style

### Application:

In some applications the surface temperature measurement value is used as a correlation to the process temperature. In other cases, the surface temperature is the measured variable sought out.

## What makes Aircom different

- Quick lead times with RUSH options available
- Easy to use product catalog for configuration
- Flexibility for custom manufactured surface mount temperature sensors
- Made in Alberta, Canada
- Over 25 years of temperature sensor manufacturing experience and problem solving
- CSA hazardous location approved designs



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# Multipoint Temperature Sensors & Assemblies

## Overview

Multipoint temperature sensors and assemblies are used in industrial process environments where multiple temperature readings are required from a single temperature sensor connection point.

They are commonly found in process reactors, catalytic crackers, fractionization towers, vessels, and storage tanks. Multipoints optimize the process by providing temperature profiles across a specific area of the chemical reaction or process media. The below examples are just some of the configurations available.

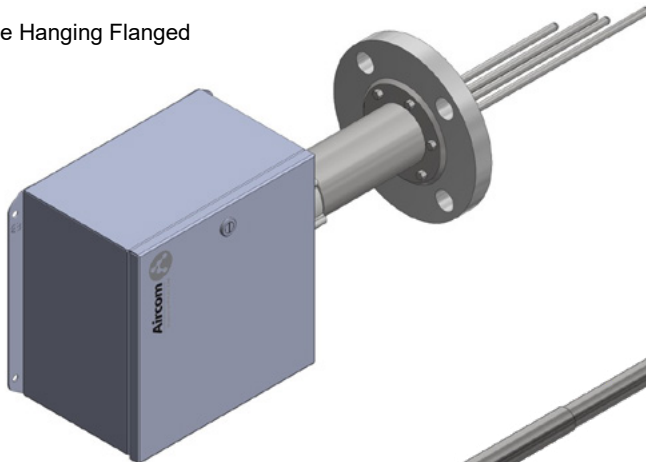
## What makes Aircom different

- Quick lead times with RUSH options available
- Drafting support with 3D design capabilities
- Flexibility for custom multipoint concepts
- Made in Alberta Canada
- Over 25 years of temperature sensor manufacturing experience and problem solving
- CSA hazardous location approved designs

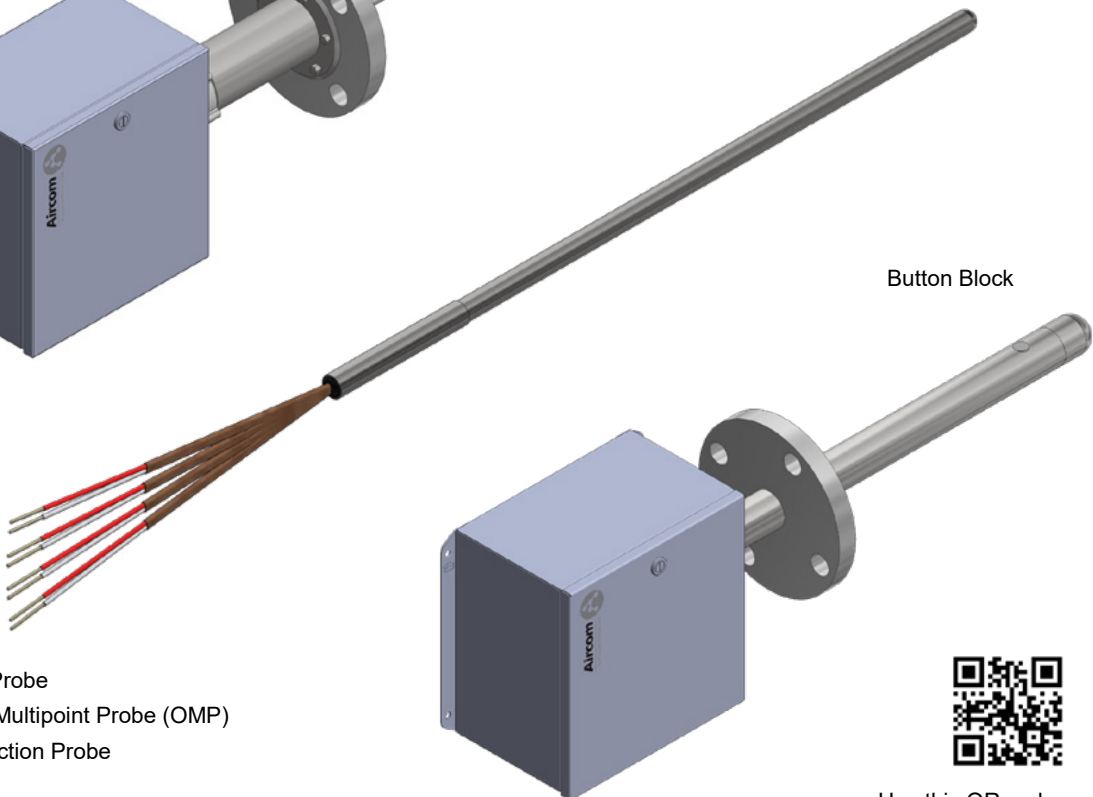
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Free Hanging Flanged



Button Block



- ⇒ Multipoint Probe
- ⇒ Optimized Multipoint Probe (OMP)
- ⇒ Pocket Junction Probe



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# Temperature Sensor Accessories

## Overview

Completing your temperature sensor installation may require some additional materials. As a temperature sensor manufacturer it is only natural to complement the offering with accessories.


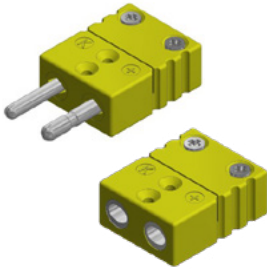
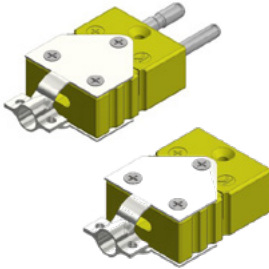
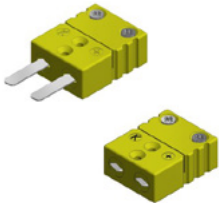
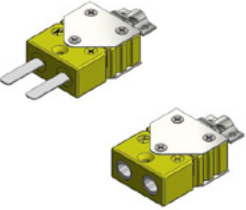
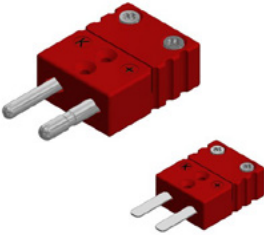
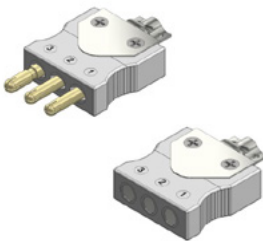

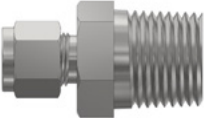



Aircom Instrumentation Ltd. carries a wide variety of temperature sensor accessories to meet your needs.

The below are just some of the many types of accessories available from Aircom.

## What makes Aircom Different

- Quick lead times with RUSH options available
- Easy to use product catalog for configuration
- Made in North America
- Over 25 years of temperature sensor manufacturing experience and problem solving



Thermocouple Wire 	Standard TC Connectors 	Standard Cable Clamp 	Mini TC Connectors 
Mini Cable Clamps 	High Temperature Connectors 	RTD Connectors & Clamps 	Spring Loaded Probe Fittings 
Probe Compression Fittings 	Assembly Fittings 	Bayonet Adapters 	 Use this QR code on your smart phone to view this catalog section on our website



# Sample & Injection Quills

## Overview

Sample and injection quills are machined and welded products used in the analytical and process piping infrastructure.

Aircom Instrumentation Ltd. is a sample and injection quill manufacturer that can create these products to meet customer specifications.


The below examples are just some of the many sample and injection quill designs and configurations available from Aircom.

## What makes Aircom different

- Quick lead times with RUSH options available
- Easy to use product catalog for configuration
- Flexibility for custom alloy quills
- Made in Canada
- Over 25 years of quill manufacturing experience and problem solving
- Multiple design Canadian Registration Numbers **CRN**

**Aircom**  
Instrumentation Ltd.



Threaded Bar Stock 	Flanged Bar Stock 	Double RF Flange 	Flanged Pipe Quill 
Double Flanged Pipe Quill 	Pipe Quill with Ball Valve 	Pressure & Temperature 	Standard Sample Quill (Isolation Valve) 
Vented Needle Valve 	Double Block & Bleed Valve (Needle - Needle - Needle) 	Double Block & Bleed Valve (Ball - Needle - Ball) 	  Use this QR code on your smart phone to view this catalog section on our website



# Process Piping & Fitting Products

## Overview

Process piping and fitting products come from Aircom's expertise in specialty welding, manufacturing, and product distribution. Aircom works with a variety of alloys to provide piping and fitting products used in the process industry.

Products are manufactured to customer specifications and designs. Aircom is capable of assisting with product design as well as altering or repairing existing process piping and fitting products.

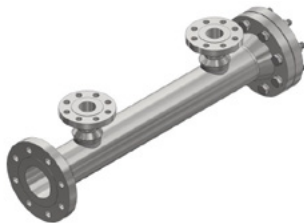
## What makes Aircom different

- Manufacturing, repair, and alter ASME section VIII div.1 pressure vessels
- Manufacturing, repair, and alter ASME B31.1 power piping and ASME B31.3 process piping
- Manufacture, repair, and alter category 'A', 'C', 'F' & 'H' fittings in accordance with CSA B51
- Inlay & Overlay and Regular Welding Services
- B Pressure and non B Pressure welding
- Full material traceability and NDE options
- Drafting capabilities including 3D design
- Obtain Canadian Registration Numbers

Specialty Welding Services



Level Chambers



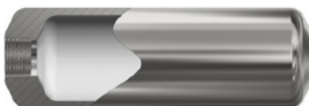
Orifice Plates



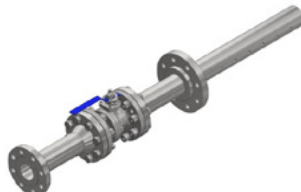
Product Repair



Sample Cylinders



Stilling Wells



Custom Piping Products



Inlay & Overlay



B Pressure Welding



Bleed Ring



Flush Ring



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# Pressure Transmitters

## Overview

TE Connectivity designs and manufactures pressure sensors ranging from the sensing element to system packaging for harsh environments.

With over 20 years of pressure transmitter manufacturing experience and problem solving, they are an industry leader for both standard and custom pressure sensors, from board level components to fully amplified and packaged transducers.

Aircom's experience with TE goes back over 12 years, exclusively working with AST Sensors, a TE company.

## What makes TE different

- Based on piezoresistive Microelectromechanical (MEMS) and silicon strain gauge (Microfused, Krystal Bond) technology
- Measure everything from inches of water column (<5 mbar) to 100K psi (7K bar)
- Made in North America
- CSA approved hazardous location designs
- Canadian Registration Numbers **CRN**



<p>General Purpose</p> 	<p>Non-Incendive Division 2</p> 	<p>Intrinsically Safe Division 1</p> 	<p>Explosion Proof</p> 
<p>Explosion Proof Display</p> 	<p>Explosion Proof Differential</p> 	<p>General Purpose Differential</p> 	<p>Submersible Level</p> 
<p>Harsh Environment Submersible Level</p> 	<p>Chemical Resistant Submersible Level</p> 	<p>Hammer Union</p> 	 <p>Use this QR code on your smart phone to view this catalog section on our website</p>





# Temperature & Pressure Gauges

## Overview

REOTEMP is a globally recognized ISO 9001-2008 manufacturer of temperature and pressure instrumentation. REOTEMP sells through a mature distribution network that reaches 30 countries worldwide.

REOTEMP provides bimetal thermometers, pressure gauges, diaphragm seals, compost thermometers, and related accessories to multiple industries.

Aircom Instrumentation Ltd. has been a proud distributor of REOTEMP instrument products for almost 20 years.

## What makes Reotemp different

- ISO 9001-2008 manufacturer of temperature and pressure instrumentation
- Made in the USA
- Quick lead times with RUSH options available
- Easy to use product catalog for configuration
- Flexible for custom design



<b>Adjustable Angle</b> 	<b>Back Mounted</b> 	<b>Direct Drive Remote</b> 	<b>Gas Actuated</b> 
<b>Industrial Heavy Duty</b> 	<b>Process</b> 	<b>Welded Diaphragm Seal</b> 	<b>Differential</b> 
<b>Threaded Diaphragm Seal</b> 	<b>Flanged Diaphragm Seal</b> 	<b>High Temperature Solutions</b> 	  Use this QR code on your smart phone to view this catalog section on our website





# Temperature Transmitters & Signal Conditioning

## Overview

PR electronics is the trusted partner for the process and factory automation industry. They specialize in making industrial process control safer, more reliable, and more efficient with their signal conditioning products and philosophy.

Aircom has worked with PR electronics for over 12 years and today is the authorized exclusive distributor for Western Canada. PR electronics is the trusted partner for the process and factory automation industry.

## What makes PR different

- Dedicated to R&D
- Made in Denmark with a global reach
- Quick lead times with RUSH options available
- Over four decades of temperature transmitter and signal conditioning experience and problem solving
- Multi-functional products
- 5-Year warranty



<b>Temperature Transmitters</b> 	<b>HART Transmitter</b> 	<b>Display - Field Mounted</b> 	<b>Slim Series Devices</b> 
<b>Multi-Function Transmitters</b> 	<b>Intrinsically Safe Isolators</b> 	<b>Display IS Transmitter</b> 	<b>Modbus Communication Enabler for PR Devices</b> 
<b>Special Functions (PWM Valve Driver)</b> 	<b>Accessories &amp; Power Supplies</b> 	<b>Digital Displays</b> 	<p>Use this QR code on your smart phone to view this catalog section on our website</p>



# Instrument Valves & Manifolds

## Overview











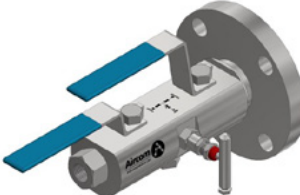

Mac-Weld Machining Ltd. is a Canadian based industry leader in instrumentation machining and manufacturing. They work with various alloys to machine parts on the latest CNC equipment.

Aircom has worked with Mac-Weld Machining Ltd. for over 20 years and is Western Canada's exclusive partner for Mac-Weld Instrument Valves and Manifolds.

## What makes MacWeld different

- ISO 9001-2008 manufacturer of instrumentation valves and manifolds
- Over 35 years experience in CNC machining and problem solving
- Dedicated to quality with a strong QMS
- Canadian Registration Numbers **CRN**



<p>Needle</p> 	<p>Multiport Gauge Root</p> 	<p>2-Valve Manifold Inline</p> 	<p>2-Valve Manifold Horizontal</p> 
<p>3-Valve Manifold Remote</p> 	<p>3-Valve Manifold Flange</p> 	<p>5-Valve Manifold Remote</p> 	<p>5-Valve Manifold Flange</p> 
<p>5-Valve Manifold Bar/Wafer</p> 	<p>3-Valve Double Block &amp; Bleed</p> 	<p>Double Block &amp; Bleed</p> 	 <p>Use this QR code on your smart phone to view this catalog section on our website</p>





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