RS Temperature Control



Temperature is one of the most measured parameters in modern production facilities. RS Brand offers a wide range of high quality temperature monitoring products designed to cope with tough applications in processing and manufacturing industries.

Many thanks for clicking on this document. Please let us introduce our RS brand temperature control offer.

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Introduction to three great ranges

Temperature control at the heart of your process

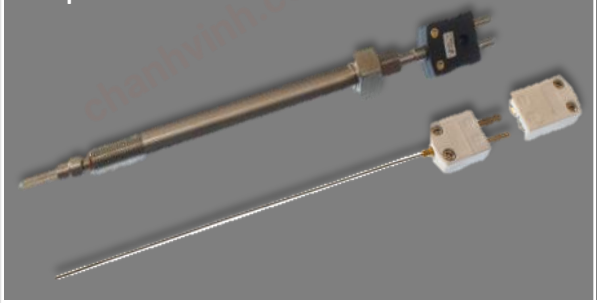
Thermocouples

New introductions for Thermocouples include stainless steel probes suited for a wide variety of applications in manufacturing and process led industries.

In addition to this we have specific Twist Melt Bolt Thermocouples which are ideal for plastic extrusion and injection moulding applications.

Thermocouples are a cost effective solution to temperature sensing and exhibit the great ability to endure thermal and mechanical extremes, this makes them ideal for applications where robustness and durability are important.

RS have a wide choice of thermocouple types & materials together with a vast range of operating temperatures to choose from.



PID and ON/OFF Controllers

Whether you opt for PID or On/Off Controllers you are getting a product that delivers quality at a good price.

PID Controllers offer the precision control with continuous feedback through a control loop. They monitor the process and ensure that adjustments are made to keep the temperature within the reference set point.

A On/Off Controller is the simplest form of temperature control and will switch the output only when the temperature crosses the set point. For heating control, the output is on when the temperature is below the set point, and off when above set point.



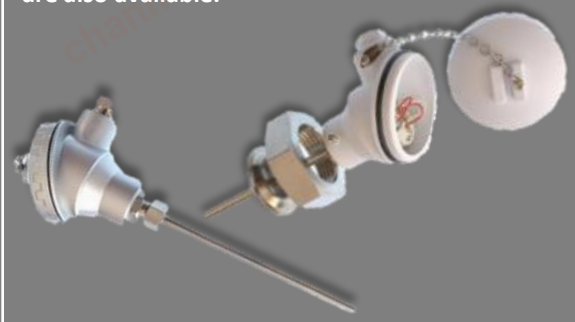
RTD Pt100 Sensors

Our latest addition of Pt100 sensors includes a fantastic hygienic range which is ideally suited for dairy, brewery and pharmaceutical applications.

With over 150 further sensors available with various specifications and numerous housing options, we can match most applications with the RS range.

Our range covers temperature sensing between -200°C to +800°C.
Available with up to 3000mm probe length.

Many are available with ½" parallel process connections, optional thermopockets and fittings are also available.



Temperature Control is a key requirement for all industrial processes. RS understands that Temperature Control has many varied needs, with our extensive offer we're sure you will find exactly what you need. Try RS brand and experience great quality products at a great price.

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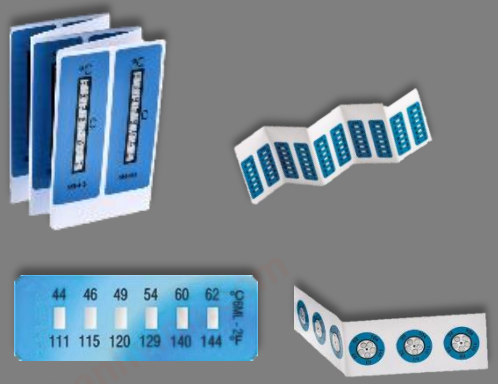
RS temperature control and monitoring products

Temperature Sensitive Labels

Low cost solutions for 100's of applications. Monitor temperature exposure with these great, easy to use labels. Simply peel and attach.

Ideal products for simple maintenance monitoring of high voltage switching equipment, electric motors and cables.

Find products suitable for general and electrical engineering applications as well as more specific applications such as aeronautical and wave soldering.



Cartridge Heaters

RS cartridge heaters provide excellent heat transfer and long life.

Designed for push fit into holes of nominal diameters, they are used for heating solids such as Dies, Moulds, Platens and various other applications demanding localized heating such as oil, air, or sugar.
A common application are plastic pellets, which are melted in order to form moulded plastic parts.

Manufactured from the highest quality materials, our range covers temperatures up to 800 °C and heaters up to 200mm long



Heating Elements

From basic drum heating elements through to Ceramic and Quartz elements.

Silicone drum heaters reduce the viscosity of materials such as soaps, fats, foodstuffs, varnishes and chemicals allowing them to be pumped or poured with ease. Effective and simple solutions for steel drums.

Ceramic heater elements are energy efficient converting 96% of the input power to heat. Suitable for long wave radiation, curing, heating and drying, elements available up to 2500w.

Quartz elements are Suitable for medium wave infrared curing, heating and drying
Medium wave infrared energy 1.5 to 5.6 micron



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RS temperature control and monitoring products

Temperature Transmitters

Range of Temperature transmitters covering all thermocouple input types.

RTD in-head mounted temperature transmitters connect to any standard Pt100 resistance sensor and convert the temperature to a 4 to 20 mA signal.

The transmitter is easily configured with the aid of a simple pushbutton over a wide temperature range, LED indication highlights any sensor fault.



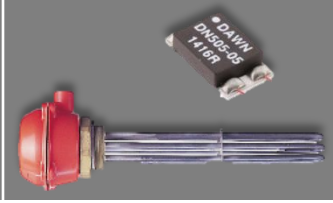


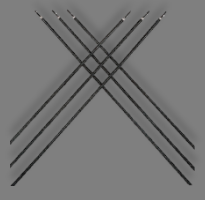

Tank Heaters

Range of industrial and domestic immersion tank heater elements.
Suited for hard and aggressive water.

From 7w subminiture tank heaters to 12000w 3-phase industrial immersion elements.

Great solutions are straight element immersion heaters, suitable for direct immersion or as a source of conducted, convected or radiant heat. They are supplied in straight lengths in an annealed condition and can be formed into complex shapes using simple bending tools.



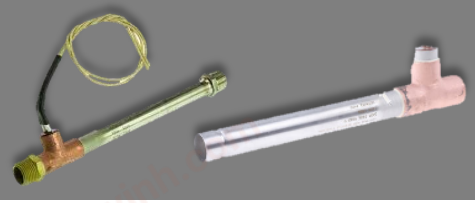


Air Heaters

These heaters will provide hot air and gas up to 540°C with infinite control by varying the voltage and air velocity supplied.

They are ideal for applications where clean air is necessary such as laboratories and environmental testing areas.

These heaters are unique in supplying non-contaminated heated as the stream of air is heated by passing over an enclosed heated surface rather than directly over exposed resistance elements.



Temperature Accessories

With over 630 accessories available we have a great choice to compliment your application and processes, for example Silicone Heating Mats are ideal for hard to get at areas where standard heating methods fail.



Thermocouple Calibrators

Portable instruments for onsite calibration and measuring of thermocouples. With built-in temperature linearity compensation circuitry and data hold feature. Ideal for localised operation, no need to remove from the process.



Temperature Probes

Wide selection of temperature probes featuring different head styles to suit multiple application possibilities.



Digital and IR Thermometers

High accuracy digital thermometers with multiple thermocouple inputs, are both versatile whilst providing great performance.



IR thermometers measure operational temperature and are ideal for maintenance solutions in automation processes.



Shown here was a small part of our
RS Automation & Control range,
on our website you will find 1000's more,
all giving great value and performance.

Thank you

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