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Address	<b>PhoenixTM GmbH</b> Zum Rehmer Eck 22 32547 Bad Oeynhausen
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Country	Germany
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## PRODUCTS OR MACHINERY

### PhoenixTM Thermocouples

All Phoenix TM thermocouples are manufactured to the highest quality standards and conform to the ANSI 96.1 special limits specification. The insulation material and the plug terminations are color coded to conform to the IEC584 standard.

For low temperature applications (up to 250°C) such as paint and powder coat curing in the finishing industry, various types of thermocouples are available; these include magnetic fixing for steel substrates and clamp fixings for non ferrous surfaces. Air and surface thermocouples are available in both magnetic and clamp type probes.

The thermocouple construction is designed to withstand rough handling, the type K, PTFE insulated wires are triple wrapped with stainless steel braid, and have a final overall PTFE insulation

Heavy duty exposed junction thermocouples with PTFE insulation are also available in the low temperature range.

Thermocouples for the finishing industry have a unique design of removable sensor (magnetic and clamp) so that when the insulated cable wears, it can be replaced without the need to buy a complete assembly. This results in high potential savings.

For high temperature applications (up to 1300°C) PhoenixTM supply a range of Inconel and Nicrobel sheathed, mineral insulated, thermocouples terminated with a high temperature miniature plug. These thermocouples have an insulated hot junction to ensure maximum protection against electrical interference from heating elements within the furnace.

Diameters of the mineral insulated thermocouples range from 1.6mm - for general purpose heat treatment applications to 3.0mm for slab and billet re-heat applications

### Glass, aluminium, and steel heat treatment process

Glass, aluminium, and steel heat treatment process - temperature monitoring system

Developed for heat treatment processes up to 800°C the PhoenixTM General Purpose Furnace Profiling System is perfect for applications such as windscreen bending, glass container annealing, steel spring tempering, aluminium brazing, etc. in the aluminium, glass, steel, and general heat treatment industries.

In windscreen manufacturing plants the system can also be used to monitor temperatures in autoclaves where pressure and temperature are used to laminate the layers of glass and plastic.

When manufacturing springs for automobile suspension units, this system is often used in the tempering furnace to ensure that the correct degree of temper is achieved.

The General Purpose Furnace Profiling System combines the TS01-125-1 thermal barrier, the PTM1-010 data logger, PhoenixTM Thermal View Plus software, and an RF telemetry option, together with a range of PhoenixTM mineral insulated thermocouples to give a robust, accurate, system which is ideal for everyday usage in many industrial heat treatment processes.

### Company Profile of PhoenixTM GmbH

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