



**INCORPORATED**

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## **2020 FURNACES & OVENS CATALOG**

**If you need replacement devices or supplies, please contact us for solutions from the following manufacturers:**

## Furnaces & Ovens



The Thermo-Temp, Inc. Field Services Team has the knowledge and ability to take care of your Temperature Uniformity Surveys, Recorder Calibrations, Temperature Control Calibrations, High-Limit Control Calibrations, repairs, and troubleshooting.



Analog Temperature Controllers are generally used to provide simple ON/OFF temperature control.

## Temperature Controllers

Thermo-Temp, Inc. offers a wide scope of sales and services, as well as training for your staff to learn to operate temperature controllers, input set points, program loop alarms, program deviation alarms and set PID parameters.

General Purpose Temperature Controllers have multiple outputs and output functions.



Limit Controllers cannot control temperature themselves, but are safety devices to be used with an existing control loop.

Multi-loop temperature controllers can accept more than one input variable and must be configured by a software program on a PC.



Profile controllers, or ramp-soak controllers, are capable of having multiple setpoints and segments programmed.

# Thermocouples

The Thermo-Temp, Inc. staff is knowledgeable about thermocouples and proper use.

ANSI Code	ANSI MC 96.1 Color Coding		Alloy Combination		Maximum T/C Grande temp. range	EMF(mv)Over Max.temp.range	IEC 584-3 Color Coding	IEC Code
	Thermocouple	Extension	+ Lead	- Lead				
<b>K</b>			NICKEL-CHROMIUM Ni-Cr	NICKEL-ALUMINUM Ni-Al	-270 to 1372°C -454 to 2501°F	-8.458 to 54.888		<b>K</b>
<b>J</b>			IRON Fe (magnetic)	CONTANTAN COOPER-NICKEL Cu-Ni	-210 to 1200°C -346 to 2193°F	-8.095 to 89.553		<b>J</b>
<b>T</b>			COPPER Cu	CONTANTAN COOPER-NICKEL Cu-Ni	-270 to 400°C -454 to 752°F	-8.258 to 20.872		<b>T</b>
<b>E</b>			NICKEL-CHROMIUM Ni-Cr	CONTANTAN COOPER-NICKEL Cu-Ni	-270 to 1000°C -454 to 1832°F	-9.835 to 76.373		<b>E</b>
<b>N</b>			NICROSIL Ni-Cr-Si	NISIL Ni-Si-Mg	-270 to 1300°C -450 to 2372°F	-4.345 to 47.513		<b>N</b>
<b>S</b>	NONE ESTABLISHED		PLATINUM-10% RHODIUM Pt-10%Rh	PLATINUM Pt	-50 to 1788°C -58 to 3214°F	-0.236 to 18.693		<b>S</b>
<b>R</b>	NONE ESTABLISHED		PLATINUM-13% RHODIUM Pt-13%Rh	PLATINUM Pt	-50 to 1788°C -58 to 3214°F	-0.226 to 21.101		<b>R</b>
<b>B</b>	NONE ESTABLISHED		PLATINUM-30% RHODIUM Pt-30%Rh	PLATINUM-6% RHODIUM Pt-6%Rh	0 to 1820°C 32 to 3308°F	0 to 13.820		<b>B</b>