



FEATURES

Affordable Reference Standard
Type S Platinum/Platinum-Rhodium
Temperature range: 0°C to 1300°C
Short term stability: <0.2°C at 1084.62°C

MULTIPLE SIZE OPTIONS AVAILABLE

Model	Length	Total TC Wire Length	Cold Junction option
1210-20	20in	1200mm	✓
1210-9	12in	1000mm	✓

OVERVIEW

The AM1210 Reference Standard Type S Thermocouple is made from reference grade platinum and platinum-rhodium alloy. It covers a temperature range of 0°C to 1300°C with short term stability of <0.2°C all the way to the Freezing Point of Copper (1084.62°C).

It is commonly used as a reference standard to calibrate industrial thermocouples. All thermocouple wires and parts are specially cleaned and annealed before assembly. Every AM1210 thermocouple is fully annealed and tested again to meet the Tolerance criteria as specified in the table below.

SPECIFICATIONS

	1210-20	1210-12
Temperature Range	0°C to 1300°C	
Type	Type S: Platinum/10% Rhodium vs. Platinum	
Long Term Drift at 0.01°C*	<0.5°C at 1210°C after 1 year typical usage	
Tolerance (mV)	$E(t_{Cu})=10.575\pm 0.015$ $E(t_{Al})=5.860+0.37(E(t_{Cu})-10.575)\pm 0.005$ $E(t_{Zn})=3.447+0.18(E(t_{Cu})-10.575)\pm 0.005$	
Short Term Stability	<0.2°C at 1084.62°C	
Diameter of thermocouple wire	0.5 mm	
Sheath Material	Alumina	
Sheath Dimensions	6mm (OD) x 20in (L)	6mm (OD) x 12in (L)
Total TC Wire Length	1200 mm	1000 mm

*Long-term drift rate is for reference only. It could be affected by such facts as handling, application, and maintenance, etc.

ORDERING OPTIONS

Model	Description
9001	Wooden carrying case for 12" thermocouple (included with AM1210-12)
9002	Wooden carrying case for 20" thermocouple (included with AM1210-20)
CJ	Cold Junction