

ISA CALIBRATION RANGE & ACCURACY TABLE

ISA CODE	Conductor & Characteristics		Temperature Range		Limits of Error	
	Positive	Negative	Deg F	Deg C	Standard	Special
J	Iron (Magnetic)	Constantan (Non-magnetic)	32 to 1382°F	0 to 750°C	2.2°C(4°F) or 0.75%	1.1°C(2°F) or 0.4%
Jx	Iron (White)	Constantan (Red)	32 to 392°F	0 to 200°C	2.2°C(4°F)	1.1°C(2°F)
T	Copper (Yellow Metal)	Constantan (Silver Metal)	-328°F to 32°F 32° to 662°F	-200°C to 0°C 0 to 350°C	1°C(1.8°F) or 1.5% 1°C(1.8°F) or 0.75%	** ** 0.5°C(0.9°F) or 0.4%
Tx	Copper (Blue)	Constantan (Red)	-76°F to +212°F	-60°C to +100°C	1°C(1.8°F)	0.5°C(0.9°F)
K	Chromel (Non-magnetic)	Alumel (Magnetic)	32 to 2282°F	0 to 1250°C	2.2°C(4°F) or 0.75%	1.1°C(2°F) or 0.4%
Kx	Chromel (Yellow)	Alumel (Red)	32 to 392°F	0 to 200°C	2.2°C(4°F)	--
E	Chromel	Constantan	32 to 1652°F	0 to 900°C	1.7°C(3°F) or 0.5%	1°C(1.8°F) or 0.4%
Ex	Chromel (Purple)	Constantan (Red)	32 to 392°F	0 to 200°C	1.7°C(3°F)	--
S	Platinum 10% Rhodium	Platinum	32 to 2642°F	0 to 1450°C	1.5°C(2.7°F) or 0.25%	0.6°C(1.1°F) or 0.1%
R	Platinum 13% Rhodium	Platinum	32 to 2642°F	0 to 1450°C	1.5°C(2.7°F) or 0.25%	0.6°C(1.1°F) or 0.1%
RSx	Copper (Black)	11 Alloy (Red)	32 to 392°F	0 to 200°C	--	--
B	Platinum 30% Rhodium	Platinum 6% Rhodium	1472 to 3092°F	800 to 1700°C	0.5%	--
Bx	Copper (Black)	Copper (White)	32 to 212°F	0 to 100°C	--	--
W	Tungsten	Tungsten 26% Rhenium	32 to 800°F 800 to 4200°F	0 to 472°C 472 to 2315°C	4.5°C(8°F) 1%	--
W3	Tungsten 3% Rhenium	Tungsten 25% Rhenium	32 to 800°F 800 to 4200°F	0 to 472°C 472 to 2315°C	4.5°C(8°F) 1%	--
W5	Tungsten 5% Rhenium	Tungsten 26% Rhenium	32 to 800°F 800 to 4200°F	0 to 472°C 472 to 2315°C	4.5°C(8°F) 1%	--

NOTE 1 - Values for J, T, K, E, R, S and B are same as those specified in ANSI specifications MC96.1 - 1982.

NOTE 2 - Where error is given in percent, the percentage applies to the temperature being measured, not the range. Select whichever is greater.

NOTE 3 - Items with (x) suffix are Extension Grade materials and are only recommended for leadwire applications.