

Greystone's TE500 temperature transmitter line boasts an accuracy of +/- 0.1% of the temperature span. This figure represents the calibration tolerance of the transmitter board itself and does not take into account the possible deviation of the RTD sensor. In order to determine what the temperature error could be throughout the range of your transmitter you can use the formula and table below. Please note that Greystone uses Class B RTDs unless otherwise requested by the customer.

Temperature deviation in deg. C = (Max. transmitter temp. – Min. transmitter temp.) * 0.001 + RTD deviation

Example: 0-100 deg. C transmitter

Temp. dev. @ 0 deg. = 100 – 0 * 0.001 + 0.3 = +/-0.4 degrees.

Temp. dev. @ 100 deg. = 100 – 0 * 0.001 + 0.8 = +/-0.9 degrees.

	Permissible Deviation – Class A	Permissible Deviation – Class B
Measuring Temperature in °C	°C	°C
-200	± 0.55	± 1.3
-100	± 0.35	± 0.8
0	± 0.15	± 0.3
100	± 0.35	± 0.8
200	± 0.55	± 1.3
300	± 0.75	± 1.8
400	± 0.95	± 2.3
500	± 1.15	± 2.8
600	± 1.35	± 3.3
650	± 1.45	± 3.6
700	-	± 3.8
800	-	± 4.3
850	-	± 4.6