

ERRATA SHEET FOR ANSI/ASHRAE STANDARD 41.1-2020
Standard Methods for Temperature Measurement

February 16, 2022

The corrections listed in this errata sheet apply to ANSI/ASHRAE Standard 41.1-2020. The first printing is identified on the outside back cover as “Product code: 86120 6/20”.

Page(s) Erratum

4 5.5.1 Steady-State Temperature Criteria for Test Points.

(Note: Additions are shown in underline and deletions are shown in ~~strickethrough~~)

[...]

\bar{T} , as determined by Equation 5-5, represents the steady-state mean temperature provided that one of the following criteria is satisfied:

- a. Apply Equation 5-6 if $2\sigma \geq T_L$ where T_L is the specified operating tolerance limit for temperature, and if Equation 5-6 is satisfied by not less than 95% of the sampled temperatures.

$$|T_i - \mu| \leq 2\sigma \quad ^\circ\text{C } (^\circ\text{F}) \quad (5-6)$$

The horizontal dotted lines, that are located 2σ above and below μ , are the boundaries of the 95% sampled temperature scatter envelope.

- b. Apply Equation 5-7 if $T_L \geq 2\sigma$ where T_L is the specified operating tolerance limit for temperature, and if Equation 5-7 is satisfied by not less than 95% of the sampled temperatures.

$$|T_i - \mu| \leq T_L \quad ^\circ\text{C } (^\circ\text{F}) \quad (5-7)$$

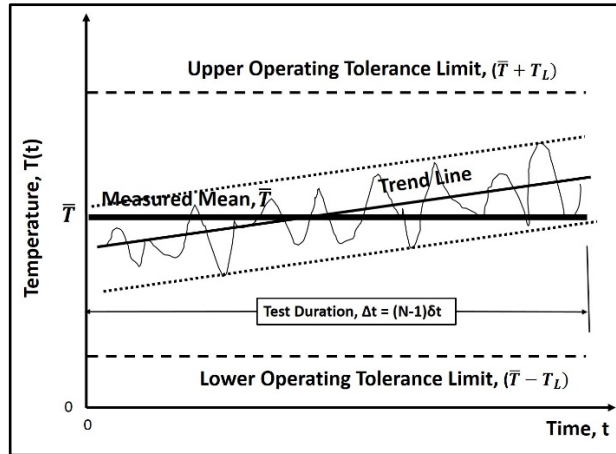
The horizontal dashed lines, that are located T_L above and below μ , are the boundaries of the 95% sampled temperature scatter envelope.

[...]

5 5.5.1 Steady-State Temperature Criteria for Test Points.

[...]

Published Figure 5-1:



New Figure 5-1:

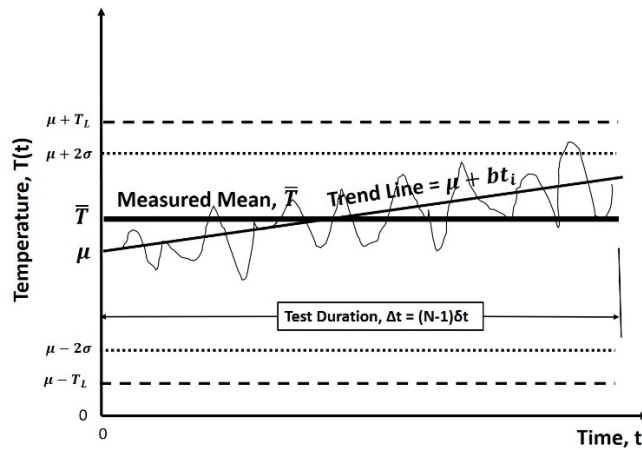
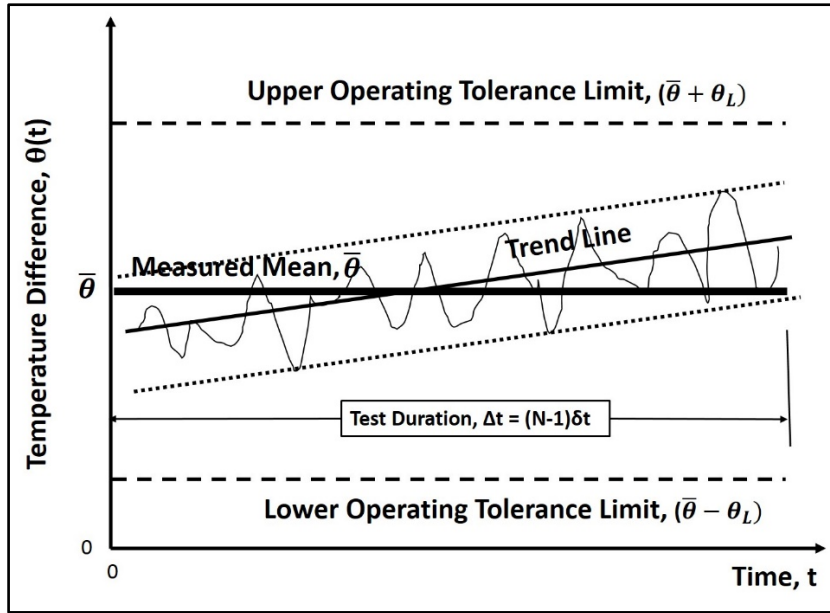


Figure 5-1: Graphical illustration of the method for determining the steady-state temperature criteria for test points.

5 5.5.2 Steady-State Temperature Difference Criteria for Test Points.

[...]

Published Figure 5-2:



New Figure 5-2:

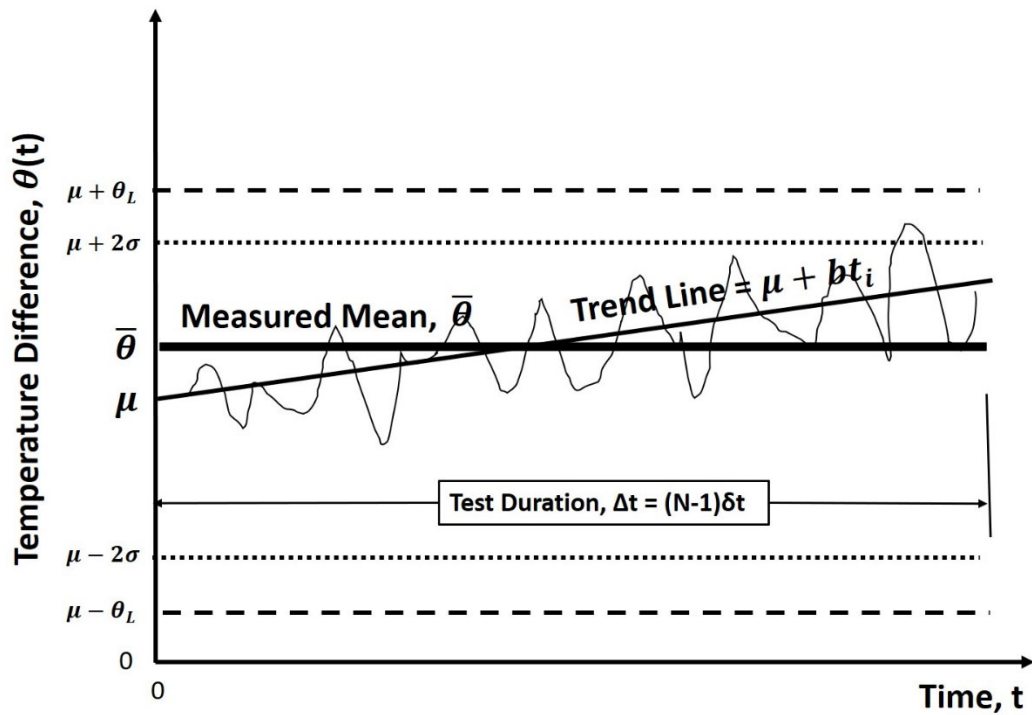


Figure 5-2: Graphical illustration of the method for determining the steady-state temperature difference criteria for test points.

6 5.5.2 Steady-State Temperature Difference Criteria for Test Points.

(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~)

[...]

$\bar{\theta}$, as determined by Equation (5-12), represents the steady-state mean temperature difference provided that one of the following criteria is satisfied:

- Apply Equation 5-13 if $2\sigma \geq \theta_L$ where θ_L is the specified operating tolerance limit for temperature difference, and if Equation 5-13 is satisfied by not less than 95% of the sampled temperature differences.

$$|\theta_i - \mu| \leq 2\sigma \quad \text{K (°R)} \quad (5-13)$$

The horizontal dotted lines, that are located 2σ above and below μ , are the boundaries of the 95% sampled temperature difference scatter envelope.

- Apply Equation 5-14 if $\bar{\theta} \geq 2\sigma$ where $\bar{\theta}$ is the specified operating tolerance limit for temperature difference, and if Equation 5-14 is satisfied by not less than 95% of the sampled temperature differences.

$$|\theta_i - \mu| \leq \theta_L \quad \text{K (°R)} \quad (5-14)$$

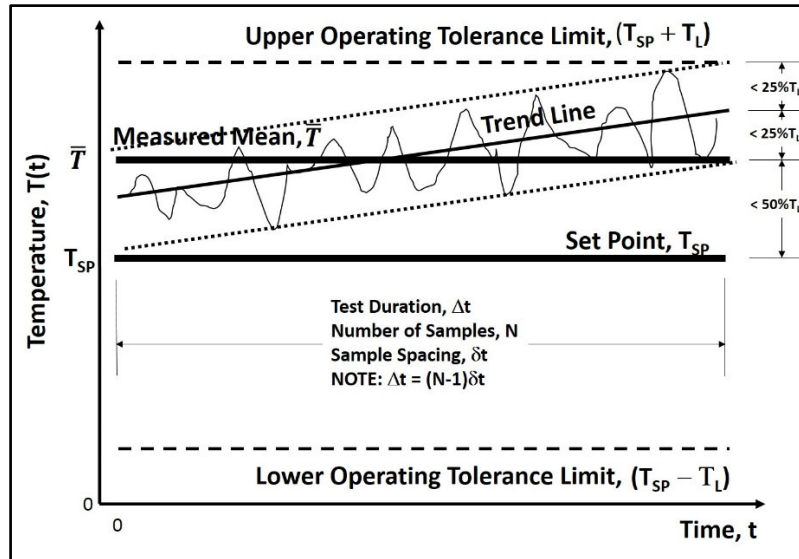
The horizontal dashed lines, that are located θ_L above and below μ , are the boundaries of the 95% sampled temperature difference scatter envelope.

[...]

7 5.5.3 Steady-State Temperature Criteria for Targeted Set Points.

[...]

Published Figure 5-3:



New Figure 5-3:

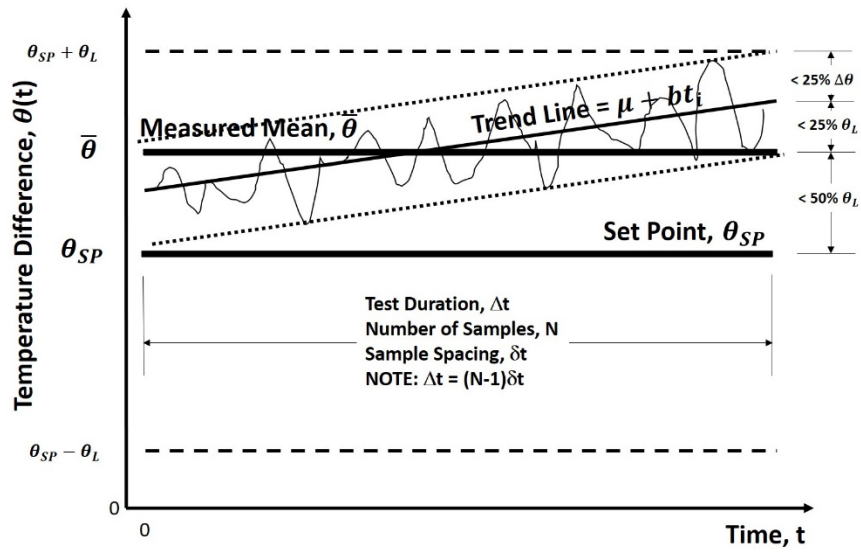


Figure 5-4 Graphical illustration of the method for determining the steady-state temperature difference criteria for targeted set points.
[...]