

**ERRATA SHEET FOR REPRINT GG 8/96 AND EARLIER COPIES OF
ANSI/ASHRAE STANDARD 41.3-1989
STANDARD METHOD FOR PRESSURE MEASUREMENT**

January 5, 1998

This errata applies to the original copies of ANSI/ASHRAE Standard 41.3-1989 (with no printer marking on the outside back cover) and to reprint marked GG 8/96. The errata concerns Appendix B Barometer Corrections, Equations B.1 through B5.

1. In Equation B1, the “s” should be lower case as it is on page 29 of National Bureau of Standards Monograph 8, “Mercury Barometers and Manometers.”

2. Equation B.2 should be:
$$C_t = - \frac{[(90.8t - 2599.6)10^{-6}]h_t}{[1 + 101 \times 10^{-6}(t-32)]}$$

The correct equation for B2 can be found in Section 9 on page 29 of National Bureau of Standards (NBS) Monograph 8, *Mercury Barometers and Manometers*¹. This equation is numbered (30) in this publication. Note: NBS Monogram 8 uses the term R_s for the observed measurement instead of h_t . This equation is the basis for “Table 6, Temperature Corrections for Fortin Barometer with Brass Scales” found on pages 48-55 of this document. Use of Table 6 avoids the need to perform calculations.

3. To clarify how P_b is intended to be used in Appendix B, the last paragraph of Appendix B including formulas B.3, B.4 and B.5 address the need to correct barometric pressure measurements for the difference in the acceleration of gravity at the location of the measurement from the standard value. Since no reference is provided for these formulas, it is recommended that Table 9 in NBS Monograph 8 be used in lieu of Equations B.3, B.4 and B.5. Use of Table 9 avoids the need to perform calculations. Monograph 8, Section 10, Gravity Errors, provides an explanation for making these corrections.

¹ National Bureau of Standards (now the National Institute of Standards and Technology [NIST]) Monograph 8, *Mercury Barometers and Manometers*, May 20, 1960. National Bureau of Standards Monograph 8 can be purchased from the National Technical Information Service in Springfield, VA (703) 487-4650. The order number is PB-186 237.