

Question 8.7

Topic: Flow RATAs

Question: May an electronic manometer be used as the differential pressure gauge when performing a relative accuracy test audit (RATA) on a volumetric flow monitor using 40 CFR Part 60, Appendix A, Method 2? If so, what should the averaging period be?

Answer: Yes. However, if regular Method 2 is used for the flow RATA, the electronic manometer must be calibrated according to the procedures in 40 CFR Part 60, Appendix A, Method 2, Section 6.2. The Δp readings from the electronic manometer should be compared to those of a gauge-oil manometer before and after the test series at a minimum of three points, approximately representing the range of Δp values in the stack. If, at each point, the values of Δp as read by the differential pressure gauge and gauge-oil manometer agree to within five percent, the differential pressure gauge shall be considered to be in proper calibration.

If Method 2F (three-dimensional probe) or Method 2G (two-dimensional probe) is used for the flow RATA, calibrate the electronic manometer as described in Section 10.3 of those methods. A minimum averaging period of one minute at each traverse point is recommended when an electronic manometer or transducer is used. The same averaging period should be used for each traverse point in the run.

References: 40 CFR Part 60, Appendix A (RM 2)

History: First published in May 1993, Update #1; revised in October 1999 Revised Manual; revised in October 2003 Revised Manual; revised in 2013 Manual