

ZERO FILTER ACCESSORY KIT & INSTRUCTIONS FOR USE.

80846



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ZERO FILTER ACCESSORY KIT 80846

For use with 80430, 804 & Aerocet 831, Series Handheld instruments

CAUTION: IF YOU HAVE A MODEL 831 OR AN 804 WITH SERIAL NUMBER PRIOR TO N14922 AND SHIPPED PRIOR TO 2013, WHICH HAS NOT BEEN UPGRADED WITH THE 80419 INLET SCREEN KIT, GO TO SECTION 3.

1. Set Up:

- 1.1. Remove the inlet screen assembly by pulling straight up off the inlet adapter seal. It is held on by an "O" ring on the inlet adapter seal.

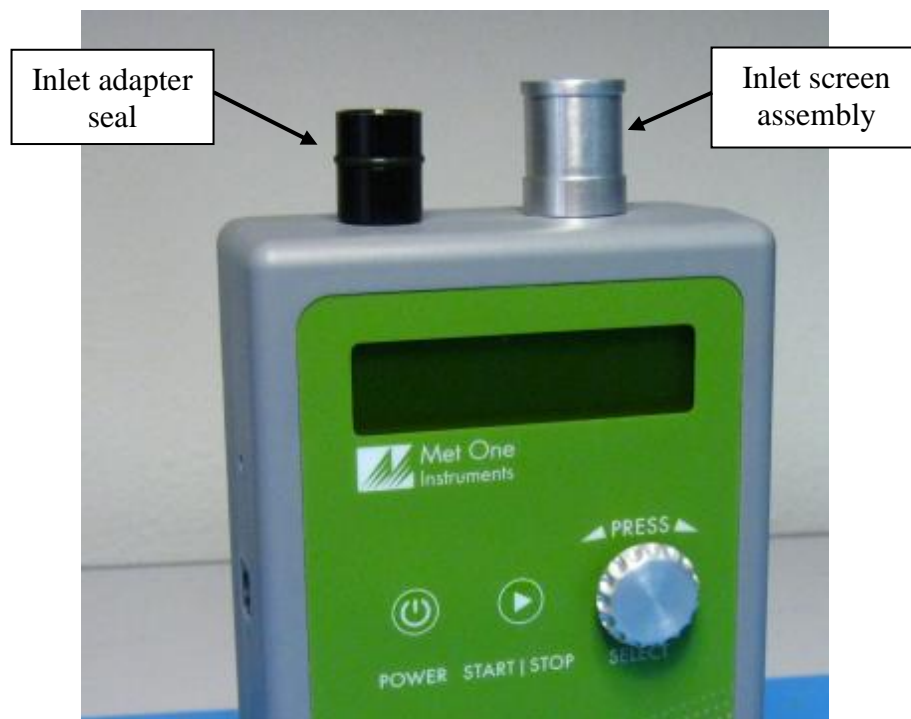


Figure 1 - The 804 with inlet screen assembly removed

1.2 Attach the zero filter with Inlet Adapter to the instrument inlet.

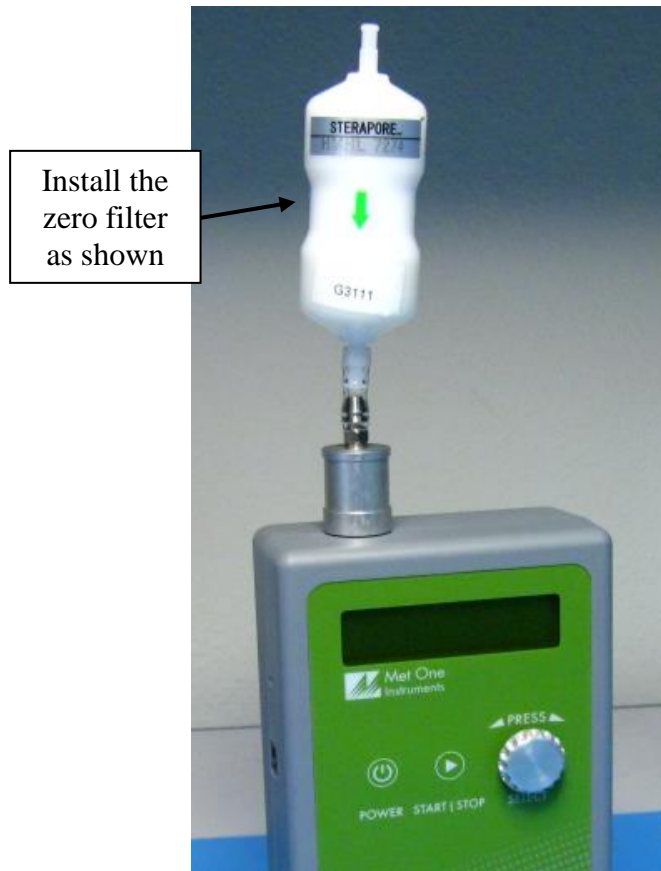


Figure 2 - Zero filter attached to the inlet barb adapter.

2. Zero count check:

- 2.1. Set the particle counter for the 0.3 μ m size. Set the Aerocet mass monitor to the largest available size (PM10 or TSP).
- 2.2. Set the particle counter for actual counts. Set the Aerocet sample time to 1 minute.
- 2.3. Start the flow on the instrument by pressing the start button.
- 2.4. If the particle counter shows counts or if the Aerocet does not show 0 μ g/m³, run two more 1-minute cycles to clean out the engine and tubing. The third cycle should show no counts or 0 μ g/m³.
- 2.5. Check the inlet screen for contamination or blockage before reinstalling the inlet screen assembly back on the inlet adapter seal.

**FOR 80430 SERIES HANDHELD PARTICLE COUNTERS MODEL 831 OR
804 SERIAL NUMBER PRIOR TO N14922, WHICH HAVE NOT BEEN
UPGRADED WITH THE 80419 INLET SCREEN KIT**

3. Set Up:

- 3.1. Remove the inlet screen assembly by pulling straight up off the inlet adapter seal. It is held on by an "O" ring on the inlet adapter seal.

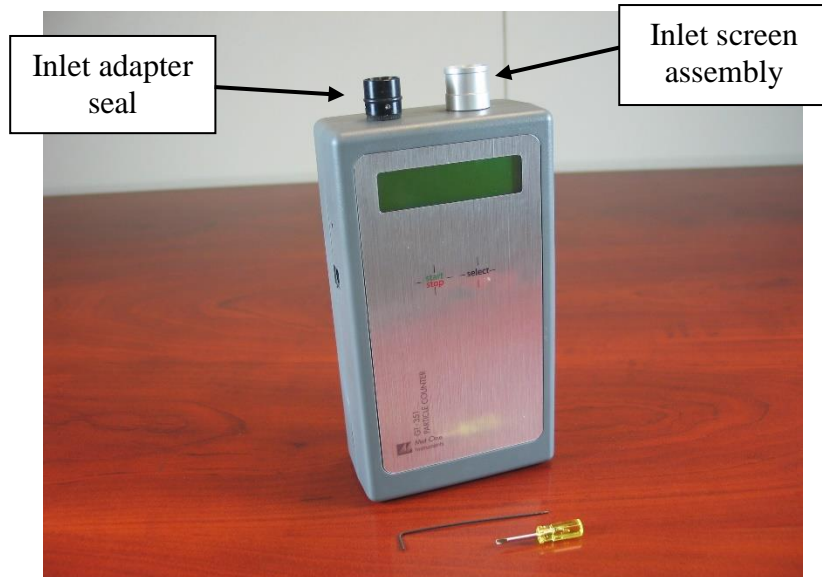


Figure 3 - The 80430 with inlet screen assembly removed

- 3.2. Remove the inlet adapter seal by loosening the two Allen screws with the .035" Allen wrench provided with the kit (MOI# 993035)



Figure 4 - Removing the Inlet Adapter seal

- 3.3. Attach the 80846 zero filter to the inlet of the particle counter as shown below.

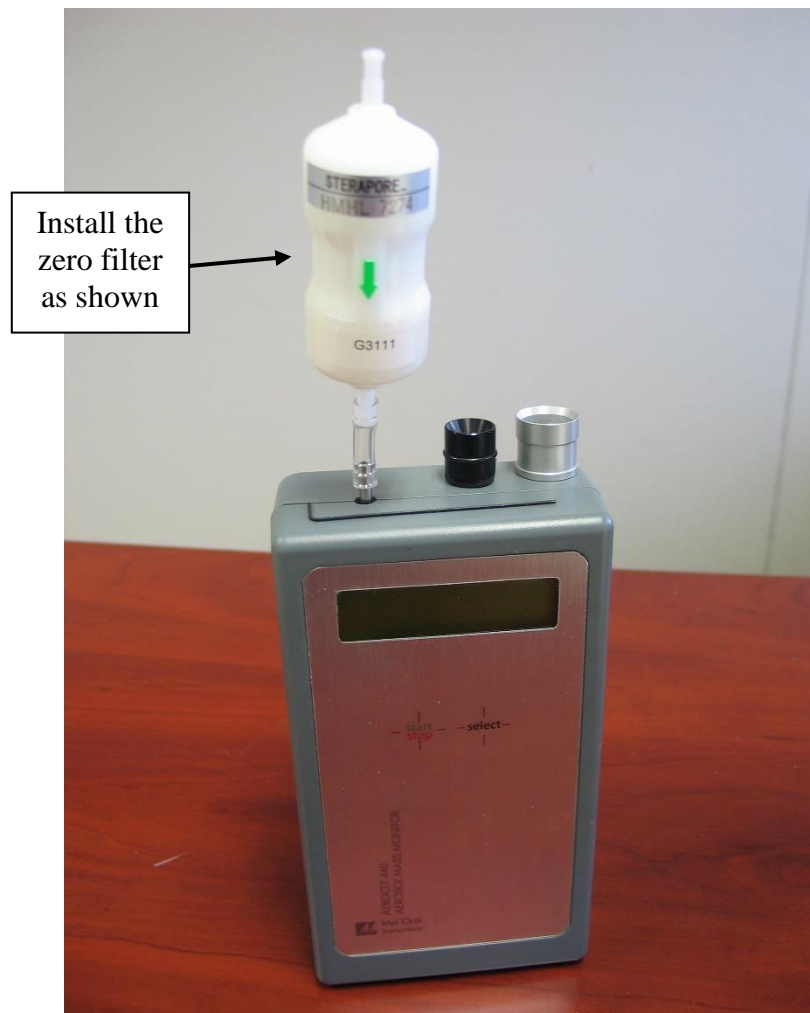


Figure 5 - 80430 attached to the Inlet Nozzle

4. Zero Count Check

- 4.1. Set the counter for the 0.3 μ m size.
- 4.2. Set the counter for actual counts
- 4.3. Start the flow on the particle counter by pressing the start button.
- 4.4. If the particle counter shows counts, run two more 1-minute cycles to clean the engine and tubing out. The third cycle should show no counts.
- 4.5. Check the inlet screen for contamination or blockage before reinstalling the inlet screen assembly back on the inlet adapter seal.