PMF83000 Gen II Mass Air Flow Sensors

Frequently Asked Questions

1. Does the PMF83000 support digital output?
   a. Yes. The I²C protocol is supported for digital output.

2. What is the pull-up voltage required for I²C digital output?
   a. 5 V.

3. What is the digital output range?
   a. From 6,553 to 58,981 (16 bits)

4. Does the PMF83000 support analog output?
   a. Yes.

5. What is the analog output range?
   a. From 0.5 V to 4.5 V.

6. What is the required supply voltage?
   a. 5 V, ± 1 %.

7. Can the PMF83000 be temperature compensated?
   a. The PMF83000 has temperature compensation.

8. Does the PMF83000 support digital filtering to smooth out the readings?
   a. Yes, and it is configurable from F0 to F128.

9. What kind of connector can be used to connect to the PMF83000?
   a. JST S6B-PH-SM4-TB or equivalent.

10. What is the best placement for the sensor to be validated and calibrated?
    a. The sensor should lie flat on a rigid surface with its logo facing upwards.
11. What is the optimum length of air pipe or duct for testing and calibrating the PMF83000?
   a. A straight pipe, without kinks, of about 30 cm is optimal.

12. To what condition is the PMF83000 calibrated?
   a. The PMF83000 is calibrated to the standard condition of 0 °C at an ATM of 14.7 PSIA.

13. What is the typical current draw?
   a. 20 mA.

14. Can the PMF83000 support bi-directional flow?
   a. Bi-directional flow can be supported upon ordering.

15. What is the normal flow direction for the PMF83000?
   a. From P1 to P2.

16. What are the wetted materials?
   a. Nylon, parylene, and silicone for sealing.

17. Has the PMF83000 been tested with corrosive gas?
   a. No.

18. Is there a kit I can purchase to test the PMF83000?
   a. Yes. A kit is available with 1 Diolan board, 1 PMD83000, and PC software to test the sensor.