

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, $\pm 1\%$.
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.