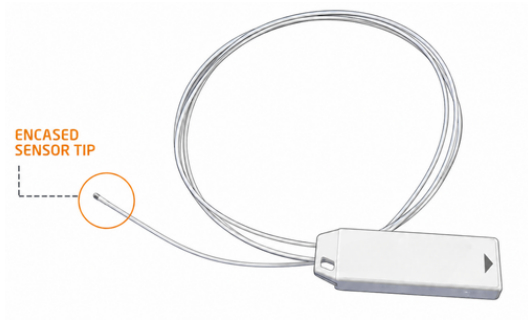


Pressure Sensor R&D Integration Kit

Integration Kit Options

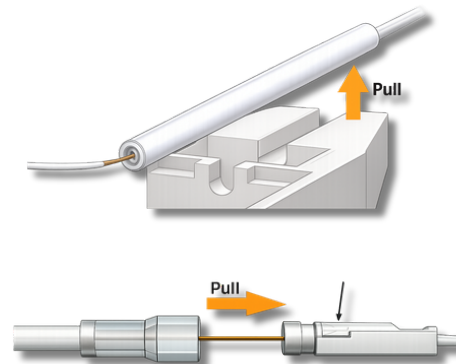
MEMS Connect

- The encased sensor features 3 thin 50-gauge wires protected by the white catheter body.
- This body terminates in a PCBA, housed in the white rectangular case. The case includes a low-profile 4-pin connector.
- You can connect this 4-pin to an amplifier (available for purchase) for signal amplification if you choose an analog PCBA.
- The amplifier output is then connected to your Data Acquisition System.
- **MEMS Connect Kit includes**
 - MEMS Connect catheter (Available in 1F-3F Configurations)
 - 2 interface cables
 - (1x) Control Unit / Amplifier
 - 2 hours of engineering support



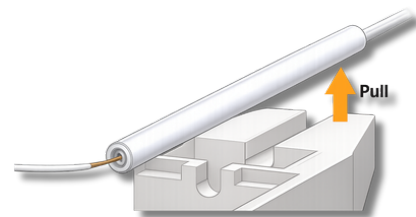
MEMS Module

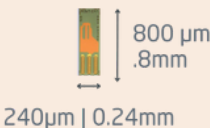
- Similar to the MEMS Connect, this assembly allows for disconnection at two points during testing.
- The first point is where the catheter meets the white rectangular case containing the PCBA and 4-pin connector. Detailed instructions will be provided with the package.
- This separation isolates the sensor module and wires (inside the catheter) from the PCBA.
- The second disconnection point is at the other end of the catheter, where you can separate the sensor, leaving the bare wires exposed.
- **MEMS Module Kit includes**
 - MEMS Module (Available in 1F-3F Configurations)
 - 2 interface cables
 - (1x) Control Unit / Amplifier
 - 2 hours of engineering support



MEMS Cath

- Similar to the MEMS Connect, the MEMS Cath allows you to disconnect only the wires from the PCBA.
- This leaves you with the sensor and 4 feet of wires encased in catheter tubing.
- The open leads at the end of the catheter tubing can be connected directly to your device. Unlike the MEMS Module, the sensor and wires cannot be disconnected from the sensor tip.
- **MEMS Cath Kit includes**
 - MEMS Cath (Available in 1F-3F Configurations)
 - 2 interface cables
 - (1x) Control Unit / Amplifier
 - 2 hours of engineering support



Integration Kit Sensor Specifications			
Parameter	1F	2F	3F
Sensor Type	Both Absolute/Vented		
Resolution	Both Analog/Digital		
Half vs. Full Bridge	Half		Both
Pressure Range	450-1050 mmHg		0-300 mmHg
Sensitivity	8 to 10 $\mu\text{V/V/mmHg}$		18 $\mu\text{V/V/mmHg}$
Temperature Error	<2% (15-40) deg C.		<1.2% (15-40) deg C.
Nonlinearity	<1 mmHg		
Bridge Resistance	2000 Ohm	3200 Ohm	800 Ohm
Dimensions			

Cleaning Instructions

1. Wipe catheter with wetted gauze immediately after use to remove bulk contaminants.
2. Submerge only the distal contaminated portion of the catheter in room-temperature or body-temperature water. Do not use hot water. Submerge only up to the connector strain relief.
3. Wipe the proximal outer surface of the catheter (including connectors) with soft gauze.
4. Prepare a cleaning solution and place the distal portion of the catheter in the solution.
5. Wet soft surgical gauze with the cleaning solution and wipe the outer surface of the catheter.
6. Soak the distal portion of the catheter in the cleaning solution for the specified time and then remove.
7. Gently wipe the catheter and sensor with soft wet gauze or tissue.
8. Immediately rinse the catheter and sensor at least three times with sterile pyrogen-free water. Do not reuse rinse water.
9. Dry the outside of the catheter using soft gauze.

For inquiries, quotes, and orders, contact:

<https://millar.com/contact/request-an-rd-kit>