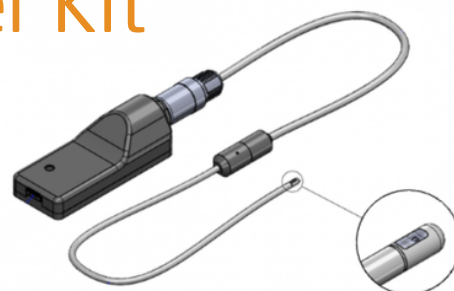




Pressure Sensor R&D Starter Kit

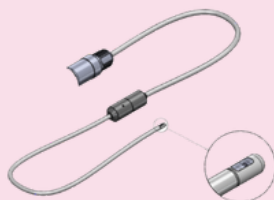
The Millar Pressure R&D Kit enables researchers and device developers to quickly evaluate high-performance pressure sensing technology in benchtop testing environments. The kit combines a USB pressure interface, real-time analysis software, and Millar's catheter-based pressure sensor technology into a simple system for early-stage testing, validation, and development.



Choose your Kit Configuration

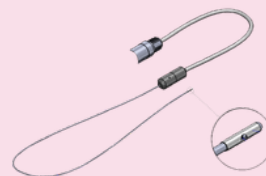
7.35 French Vented Full Bridge

Sensor	PFB1000
Working Length	600 mm
Catheter Body	7.35F Pebax
Interconnecting Cable Length	1500 mm
Connector	Redel connection
Calibration	Integrated EEPROM *Stores factory calibration and production data (serial number, etc.)



2.3 French Absolute Half Bridge

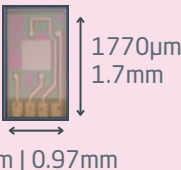
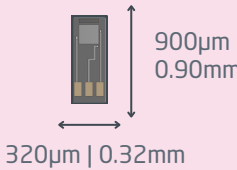
Sensor	PHB320
Working Length	1300 mm
Catheter Body	2.3F Pebax
Interconnecting Cable Length	1500 mm
Connector	Redel connection
Calibration	Integrated EEPROM *Stores factory calibration and production data (serial number, etc.)



Kit Contents

Two (2) Catheters	• 2 catheters (either 7 French or 2 French) • (Additional catheters can be purchased separately)	
USB Pressure Interface Dongle	• USB-C connection • Single channel pressure input • Sampling rate: 50 Hz or 250 Hz • Temperature compensation included • No subject isolation	
Data Analysis Software	• Real-time pressure display • Data storage and export to CSV format • Pressure unit selection: (mmHg, kPa, cmH₂O) • Time span selector: (1 min, 5 min, 10 min, 30 min, 60 min) • Zeroing functionality • Automatic signal-based autoscaling	
USB Isolator Cable	• Use the USB isolator in non-ESD-safe environments	

Sensor Specifications

Parameter	7.35 Fr Vented Full Bridge	2.3 Fr Absolute Half Bridge
Sensor	PFB1000	PHB320
Type	(Gage) Differential	(Absolute) Zero Referenced
Pressure Range	-300 to 1000 mmHg	450 - 1050 mmHg
Excitation ¹	-5 to 5 V	
Sensitivity	8 to 15 $\mu\text{V/V/mmHg}$	5 to 6 $\mu\text{V/V/mmHg}$
Operating Temperature	-20 to 65 °C	
Linearity and Hysteresis	<1 % FS	
Offset ²	-12.5 to 12.5 mV/mAex	
Bridge Resistance	3.9 to 5.0 k Ω	2.5 to 6.0 k Ω
Burst Pressure	>4000 mmHg	
Dimensions		

1- DC or AC voltage over bridge, a current source can also be used.

2- No pressure applied

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>