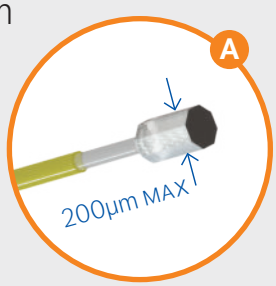
Apollosense®

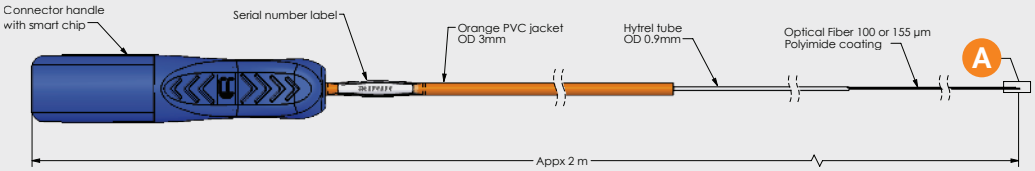
Pressure Sensor

Applications

- Cardiovascular: LV pressure, flow assessment, mechanical circulatory support
- Pharmacology: Drug and fluid injection
- Neurosciences: Intracranial pressure, aneurysm pressure change
- Spine/Bones: Intradiscal/Intramedullary pressure
- Urology: Bladder/Ureter pressure
- Ophthalmology: Intraocular pressure for anterior and posterior chamber
- Arterial blood or LV pressure for image gating
- Respiratory/Pulmonology
- Endoscopy

Fiber Optic Pressure Sensors: distal tip as small as 200µm





Customizable options

We offer the most comprehensive line of fiber optic pressure sensors for medical devices, including customizable options such as:

Sensor element diameter

Based on the same design, we offer three sizes of sensor elements with similar specifications. The sensor elements developed are:

- FOP-MIV (OD 0.022” / 550µm)
- FOP-M260 (OD 0.010” / 260µm)
- FOP-M200 (OD 0.008” / 200µm)

Protection of the sensor

Different sheaths can be added to protect the sensor element, to increase the durability during usage, or for the ease of manufacturing of the medical device. The options are:

- Bare
- Polyimide tubing
- Stainless Steel
- Radio-opaque

The configuration

The length, the type of material, and the connectors are all customizable. Customization is done with our customers through a well-established development process. The configurations include:

- Connector type, SC/APC with bulkhead containing a smart chip to communicate the serial number and calibration data
- Jacket length, diameter, and coating material (standard PVC)
- Fiber length, diameter, and coating material

Item number nomenclature

FOP-M200-111

- FOP: Fiber Optic Pressure sensor
- M200: PRESSURE TRANSDUCER:
  - M200 - OD 200µm MAX
  - M260 - OD 260µm MAX
  - MIV - OD 570µm MAX
- 1: FIBER:
  - 1- 155/125/62.5 Pl coated fiber
  - 2 - 100/80/62.5 Pl coated fiber (M200 and M260 only)
- 1: TIP:
  - 1 - Bare
  - 2 - With integration ring
  - 3 - Polyimide protection
  - 4 - Stainless steel protection
- 1: RANGE:
  - 1 - ±300mmHg
  - 2 - 0-150 psi (MIV only)

Not sure which one you need?

Contact us to be guided through the selection of the right pressure sensor for your project.

深圳市新世联科技有限公司

地址：深圳市深南中路2066号华能大厦712室
电话：0755-83680810 83680820 83680830 83680860
网址：www.apollounion.com
邮编：518031
传真：0755-83680866
邮箱：sales@apollounion.com

Apollosense®

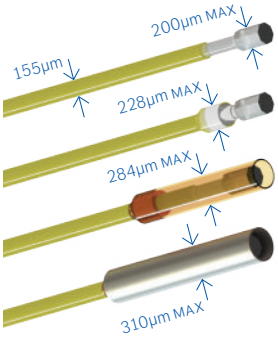
Pressure Sensor

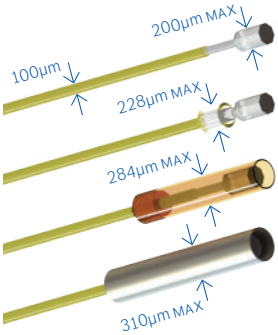
FOP-M200 | Medical

Key Features

- The fiber optic pressure sensors M200 are the smallest sensing element offered by Resonetics.
- They present similar specifications and are thus the perfect choice when size is critical.

Models

Fiber 155 µm	Tip	Item #
	Bare	FOP-M200-111
	With integration ring	FOP-M200-121
	Polyimide protection	FOP-M200-131
	Stainless steel protection	FOP-M200-141

Fiber 100 µm	Tip	Item #
	Bare	FOP-M200-211
	With integration ring	FOP-M200-221
	Polyimide protection	FOP-M200-231
	Stainless steel protection	FOP-M200-241

Specifications

Pressure range[1]	± 300mmHg relative to atmospheric pressure
Resolution[2]	0.3mmHg
System accuracy[3]	± 3mmHg or 3% of reading
Sensitivity thermal effect[4]	< 0.3mmHg /C
Proof pressure	> 4500mmHg
Operating conditions	Humidity: 0-100%; Temperature: 15C-45C
Storage conditions	Humidity:0-95%; Temperature:-30C-85C
Tip termination	Bare/Ring/Sheathed with polyimide or SS
Sensor length	2m
Connector[5]	Proprietary bulkhead over SC-APC

1. Can be customized
2. With an SKR module and a filter of 30Hz applied
3. With sensors and reading modules combined. Includes reproducibility (sensor/module exchange), repeatability and hysteresis, non-linearity, scale error, offset error, and reading module temperature compensation error.
4. Determined between 10-70C at atmospheric pressure (~760mmHg)
5. SCAI connector with a smart chip communicating calibration data to the reading module

深圳市新世联科技有限公司

地址：深圳市深南中路2066号华能大厦712室
电话：0755-83680810 83680820 83680830 83680860
网址：www.apollounion.com
邮编：518031
传真：0755-83680866
邮箱：sales@apollounion.com