



NEW
0.25 mm OD
 Much Smaller Than 1Fr

**0.25mm OD MEMS-BASED
 FIBER OPTIC PRESSURE SENSOR
 FOR LIFE SCIENCE APPLICATIONS**

Compatible with Opsens' WLPI serie LifeSens and OEM-MNP signal conditioners

Key Features

- Ultra miniature
- High fidelity
- Easy catheter integration
- Custom sensor packaging
- EMI/RFI immunity
- MRI safe and compatible
- Low cost

Applications

- Physiological pressure monitoring:
 - Intra vascular blood pressure
 - Urodynamic
 - Intra cranial pressure
 - Intra uterine pressure
 - Intra ocular
 - Intra aortic balloon pumping
- Catheter research, new product development design
- Guidewires design (0.2,5 mm OD model)
- Cardiac assist applications
- Pressure measurement under electro-surgery, MRI and MW/RF related practices

Description

Opsens' OPP-M is a MEMS-based fiber optic pressure sensor designed for human and animal physiological pressure measurements.

These miniature 0.25 mm OD sensor is intended for use in catheters, guidewires or other devices enabling minimally invasive physiology pressure measurement. Its novel patent pending design eliminates moisture-induced drift and minimizes thermal zero shift.

The bare optical pressure sensors are dedicated for company that wishes to performs own in-house sensor packaging unique to their product.

Opsens new encapsulated OPP-M is integration ready. The encapsulation can be done on the sensor tip and/or throughout the whole optical cable in different materials and sizes; customizable according to client specific OEM applications.

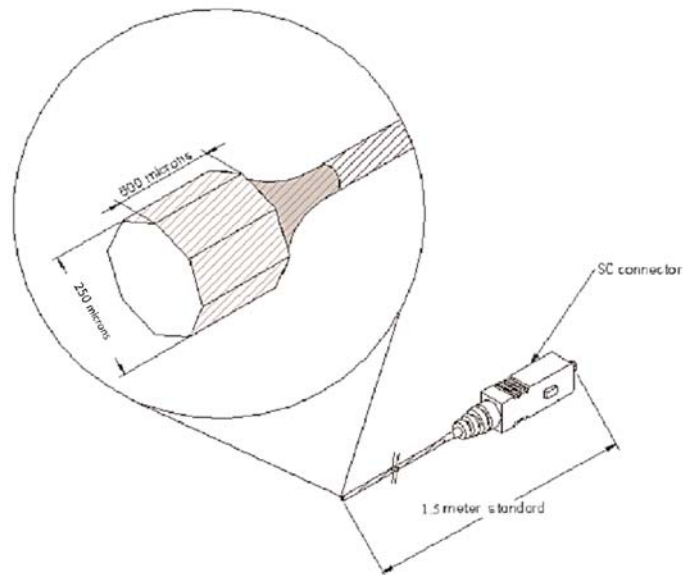
The packaged sensor significantly reduces the R&D investment and integration efforts hence minimises the overall cost on implementation and manufacturing processes.

Combined with Opsens WLPI signal conditioning technology (patent # 7,259,862) and with the inherent advantages of fiber optic, the OPP-M addresses the medical industry requirements for long term accuracy, repeatability, low drift and high fidelity pressure measurements under the presence of harsh EM, RF, MR and microwave fields.

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Specifications

	OPP-M250
Dimension (mm O.D.)	0,25 mm OD
Pressure range	- 300 mmHg to + 350 mmHg (relative to atmospheric pressure)
Precision	± 1 mmHg
Resolution	0.2 mmHg
Moisture drift (typical)	< 3 mmHg/28 days
Thermal coefficient of Zero (typical)	0.2 mmHg per °C
Proof pressure	4000 mmHg
Operating temperature	10 °C to 50 °C
Operating humidity range	0-100%
EM/RF/MR/MW susceptibility	Complete immunity
Cable length	1.5 meters standard (Other lengths available)
Optical connector	SC standard
Cable sheathing	Customer specifications

Signal conditioner compatibility: best suited for MiniP OEM board, LifeSens and ProSens;
also compatible with other Opsens WLPI signal.

NOTE: The OPP-M product is designed to be integrated into customer host system but is not approved by the FDA or by any applicable regulatory bodies.

All specifications are subject to change without prior notifications