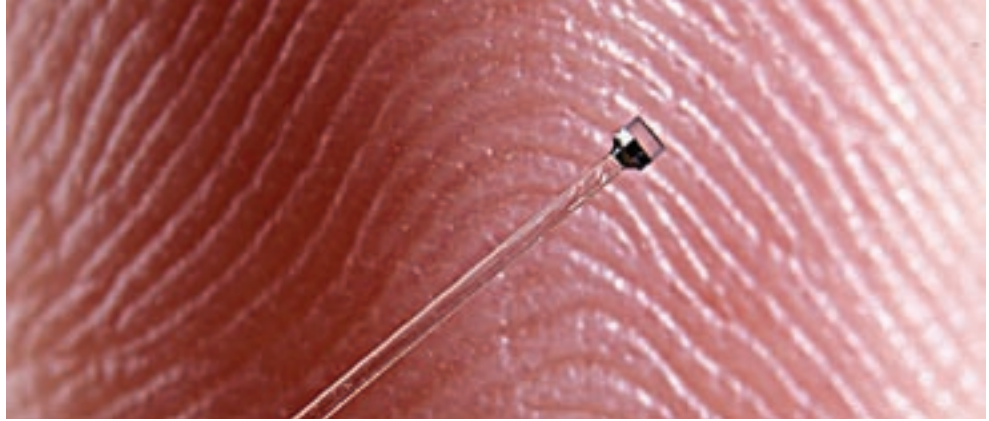


product datasheet

FOP-MIV Pressure Sensor



THE FOP-MIV FIBER OPTIC PRESSURE SENSOR PROVIDES HIGH FIDELITY AND EXCEPTIONAL MEASUREMENT PERFORMANCE FOR OEM MEDICAL DEVICE APPLICATIONS.

FISO's fiber optic FOP-MIV combines all the desired characteristics you would expect from the ideal pressure sensor. Its immunity to microwave and RF, ultra miniature size, high accuracy and reliability make it the best choice for pressure measurements for OEM medical device applications.

This fiber optic disposable pressure sensor allows in situ pressure measurement through minimal invasive procedure. The technology is based on a combination of MEMS and Fabry-Perot interferometer. Due to the optical nature of the sensor and transmission line, the system delivers high fidelity pressure measurements even in the presence of strong EM and RF fields such as those generated by electric scalpel or MRI systems.

Every pressure sensor is pre-calibrated at the factory to deliver consistent and accurate pressure measurements. Connected to the signal conditioner interface and zeroed once by depressing a single button, the sensor is ready to deliver precise pressure measurements.

Available in large volume, this pressure sensor is designed to mate with FISO's fiber optic PM-250 signal conditioner interface. Readout interfaces are designed to be integrated into the customer's own system, or externally interfaced to an existing monitor.



Key features

Immune to EMI/RFI

Suitable for use in electro surgery, MRI and microwave environment

Miniature and rugged sensor

In situ pressure measurement

High accuracy and fidelity

Intrinsically safe

Available in high volume

Custom packaging

Applications

Medical device component for in situ pressure monitoring systems:

- Intravascular
- Intrauterine
- Intracranial
- Urodynamic

MRI and microwave/RF related practices

New product development

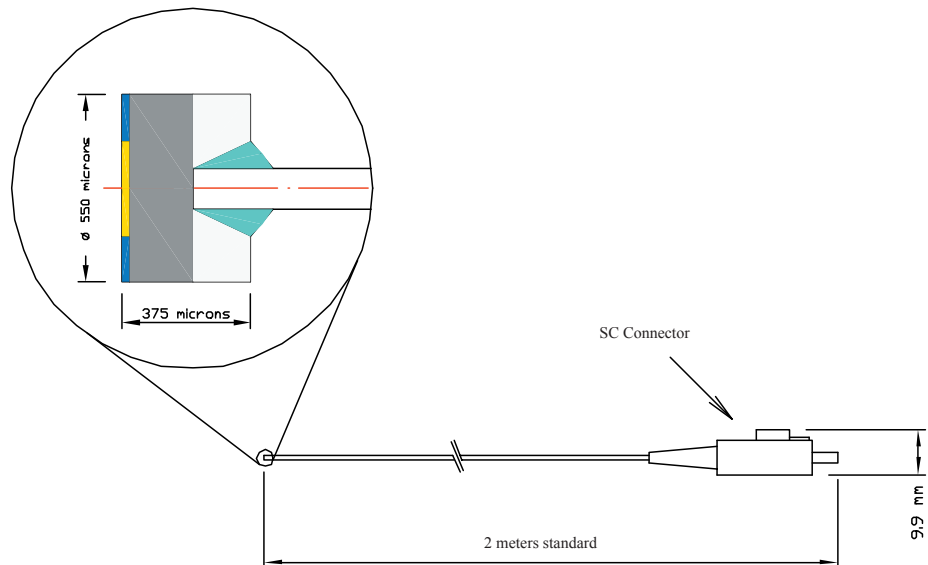
Research applications

specifications



| | |
|--|---|
| Pressure range: | -300 mmHg to 300 mmHg (relative) |
| Precision: | ±1 mmHg or ±1,5% FS, whichever is greater |
| Resolution: | 0.5 mmHg |
| Sensitivity thermal effect: | ≤ ±0.1%/°C |
| Zero thermal effect: | ≤ ±0.5 mmHg/°C |
| Zero drift with time: | ≤ ±1 mmHg/12 hours at operating temperature |
| Operating temperature: | 10 °C to 50 °C (50 °F to 122 °F) |
| Microwave/MRI/EM/RF susceptibility: | Intrinsic immunity |
| Proof pressure: | 4000 mmHg |
| Fiber optic cable: | Acrylate and polyimide buffer coating available |
| Cable length: | Standard: 2 meters length Custom length available |
| Sensor dimensions: | Tip sensitive section: 550 microns O.D., 375 microns Long Fiber optic section: 250 microns |
| Signal conditioner compatibility: | Contact factory |

FOP-MIV Pressure sensor dimensions



DISCLAIMER

PRODUCTS DESIGNED, MANUFACTURED AND SOLD BY FISO TECHNOLOGIES INC. ("FISO"), OR ITS AUTHORIZED DISTRIBUTORS, AGENTS OR RESELLERS, ARE NOT AND SHALL NOT BE CONSIDERED OR REPRESENTED AS BEING MEDICAL INSTRUMENTS. SUCH PRODUCTS HAVE NOT BEEN APPROVED OR CERTIFIED, NOR SUBMITTED FOR APPROVAL OR CERTIFICATION, BY APPLICABLE REGULATORY BODIES INCLUDING, WITHOUT LIMITATION, THE OFFICE OF DEVICE EVALUATION OF THE U.S. FOOD AND DRUG ADMINISTRATION OR THE THERAPEUTIC PRODUCTS DIRECTORATE OF HEALTH CANADA. PRODUCTS PURCHASED WITH THE INTENT OR FOR THE PURPOSE OF BEING USED AS MEDICAL DEVICES OR COMPONENTS SHALL BE DONE AT PURCHASER'S OR USER'S OWN RISK. FISO DISCLAIMS ALL LIABILITY WITH RESPECT TO ANY AND ALL USE OF ITS PRODUCTS AS MEDICAL DEVICES OR COMPONENTS, OR IN ANY MEDICAL APPLICATION OR PROCEDURE INCLUDING, WITHOUT LIMITATION, IN VITRO OR IN VIVO USES. FISO PRODUCTS ARE SCIENTIFIC INSTRUMENTS WHOSE MISUSE IS POTENTIALLY DANGEROUS. THEY ARE INTENDED TO BE INSTALLED AND USED ONLY BY QUALIFIED PERSONNEL. FISO'S LIABILITY TO PURCHASER FOR CLAIMS RELATED TO THE PURCHASE, TRANSPORTATION, INSTALLATION OR USE OF ITS PRODUCTS SHALL BE LIMITED TO THE AGGREGATE VALUE OF THE PURCHASE PRICE OF THE PRODUCTS AS STATED IN FISO'S INVOICE TO PURCHASER. IN NO EVENT SHALL FISO BE LIABLE FOR ANY DIRECT, INDIRECT, PUNITIVE, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH OR RELATED TO THE PURCHASE, TRANSPORTATION, INSTALLATION OR USE OF ITS PRODUCTS (INCLUDING LOSS OF PROFITS, USE, OR OTHER ECONOMIC ADVANTAGE), HOWEVER ARISING, WHETHER FOR BREACH OF WARRANTY OR IN TORT, EVEN IF FISO HAS BEEN PREVIOUSLY ADVISED OF THE INTENDED USE OF ITS PRODUCTS OR OF THE POSSIBILITY OF SUCH DAMAGE.

FISO Technologies, Incorporated reserves the right to make any changes in the specifications of their products without prior notice.
DOC: mc-00032r12 IMPRIMÉ AU CANADA/PRINTED IN CANADA

FISO
Technologies

500 St-Jean-Baptiste Avenue
Suite 195
Quebec (Quebec)
Canada G2E 5R9

Phone:
(418) 688-8065
Fax:
(418) 688-8067

info@fiso.com
www.fiso.com