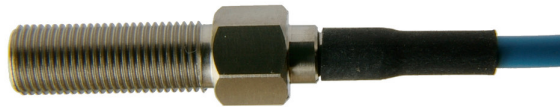


Fiber Pressure Probe

FPP



The FPP is a fiber optic pressure sensor designed for measurement in high voltage circuit breakers, reliable measurement under harsh conditions and corrosive environments.

- Withstand high voltage
- Immune to Electro Magnetic Interference
- Withstand decomposition substance
- Galvanic isolated
- Miniaturised
- High bandwidth

Description

The FPP fiber optic pressure sensor is based on proven Fabry-Perot interferometer technology. The element and diaphragm unique design are based on Micro-Electro-Mechanical-System (MEMS), an integration of mechanical elements on a common silicon substrate through microfabrication.

The element is located at the end of an optical fiber.

Pressure creates a variation in the length of the Fabry-Perot cavity and our fiber optical signal can consistently measure the variation with high accuracy.

Application

As a result of its small size, high accuracy, immunity to EMI and resistance to corrosive environments, this sensor is ideal for measurement in harsh environment.

FPP is developed to meet the requirement for measurement in high voltage environment.

Technical data

Pressure range	0-10 MPa
Output signal	0-5 V ; 0-2 V
Accuracy	+/- 1 % FS
Operating temperature range	0-70 ° C
Optical connector	Holtec
Thread	M5*0,5 mm
Fiber length	0-100 meter
Extension cable	0-200 meter

Dimensions in mm

