

Fiber Optic Grating Pressure Ring Company



Article Overview

Leading manufacturers of fiber optic grating pressure rings include AtGrating, GKER Photonics, and specialized research-based designs from The Hong Kong Polytechnic University.

Key Manufacturers

1. AtGrating (China) AtGrating specializes in Fiber Bragg Grating (FBG) sensors for pressure, strain, temperature, and displacement measurements. They offer customized FBG products, wavelength interrogators, and full technical support including installation, calibration, and repair. Their sensors are widely used in construction, energy, aerospace, and medical applications, and can be embedded in structures for real-time monitoring of pressure and strain . 2. GKER Photonics (China) GKER Photonics produces high-quality optical fiber gratings, including FBGs, long-period gratings (LPGs), and fiber optic interferometers. Their products are designed for precise pressure, strain, temperature, and vibration sensing, and are applied in telecommunications, aerospace, oil and gas, structural health monitoring, and medical equipment. They also provide customized solutions to meet specific application requirements . 3. The Hong Kong Polytechnic University Research Team Researchers at PolyU developed single-ring suspended core fibers for enhanced FBG-based hydrostatic pressure sensing. These fibers feature a central core suspended by a silica ring, enclosed by an outer ring, which significantly improves pressure sensitivity—up to eleven times higher than standard single-mode fibers. This design is particularly suitable for high-precision pressure monitoring in civil engineering, m...

Article Content

Sep 28, 2025

Fiber loop ring-down optical fiber grating gas pressure sensor

Abstract A kind of bare fiber Bragg grating (FBG) gas pressure sensor based on fiber loop ring-down is presented, in

Sep 22, 2025

Temperature self-compensation fiber-optic pressure sensor based on ...

Therefore, we can integrate the advantages of EFPI pressure and FBG temperature sensors to realize a

Mar 22, 2026

Tailored fiber optic sensing components & solutions

All of our FBG components (DTG ®, FSG ®, AGF ®) stand out with unmatched mechanical and optical

Jan 23, 2026

Exploring Optical Fiber Grating: Principles and Applications

Intro Optical fiber grating technology serves as a foundational stone in modern communication and sensing

May 28, 2026

Fiber Grating

LPG (Long Period Grating) and FBG (Fiber Bragg Grating) are types of fiber gratings inscribed in optical fibers, utilizing periodic

Jan 28, 2026

Design of a Pressure Sensor Based on Optical Fiber Bragg Grating

This paper describes steps involved in the design and realization of a new type of pressure sensor based on the optical

Sep 24, 2025

Enhanced pressure and thermal sensitivity of polymer optical fiber ...

Abstract One of the features of reliable polymer optical fiber (POF) Bragg grating sensors is high sensitivity. Towards

Aug 15, 2025

Fiber Bragg Grating Sensors: Design, Applications, and Comparison

Fiber Bragg grating (FBG) sensors have emerged as advanced tools for monitoring a wide range of physical parameters in various

Oct 14, 2025

Cavity ring-down long period grating pressure sensor

An optical fiber pressure sensor by the use of a long period grating in a cavity ring-down loop is reported. The

Jun 27, 2026

O/E Land Inc

Using our advanced FBG writing technologies with holographic phase mask and ebeam phase mask, we are able to write many

Mar 23, 2026

Sensitivity-variable fiber optic pressure sensors using microbend fiber ...

We report on sensitivity control of fiber optic sensors using microbend long-period fiber gratings. By tuning the phase

Jul 29, 2025

FBG Pressure Sensors | Optromix

FBG Pressure Sensors Fiber Bragg grating pressure sensors may completely supersede traditional voltage sensors due to their

Jul 13, 2026

Performance investigation on pressure sensing from fiber Bragg grating ...

Abstract The theoretical description and experimental demonstration for pressure sensing characterized over the

Oct 06, 2025

FBG Fiber Optic Bragg Grating Packaged Sensor/transducer/probe ...

AtGrating is specialised in the manufacturing and development of digital FBG packaged sensor. With our high-quality FBG fibre optic

Jul 18, 2026

A Wide Range Curvature Sensor Based on Fiber Ring Laser With a

Long-period fiber grating (LPFG) is a promising curvature sensor due to its high bending sensitivity. In this article, a fiber ring laser

Apr 08, 2026

FBG Pressure Sensors | Optromix

By monitoring temperature and pressure in reactors and pipes, FBG pressure sensors reduce the chance of leaks and ruptures while

Jan 20, 2026

Fiber Optic FBG Fiber Bragg Grating Sensing System | AtGrating

AtGrating's FBG optical fiber products are widely used for testing and monitoring safety and health through the variation of particular

Jun 02, 2026

Fiber Bragg Gratings

Proximion is the leading supplier of advanced Fiber Bragg Gratings (FBGs) based products with a capability to manufacture straight,

Jan 15, 2026

Pressure Sensing

Fiber optic pressure sensing as turn-key solution. The fiber optic pressure sensor is a medium range hydrostatic pressure /

Feb 17, 2026

Fiber Optic FBG Fiber Bragg Grating Sensing Solutions | AtGrating

As a fiber Bragg grating manufacturer in China, AtGrating specialized in the fields of FBG, FBG sensor, wavelength interrogator and

Jul 01, 2026

Fiber Bragg Grating Sensors | Optromix

Fiber Bragg Grating (FBG) pressure sensors are used in structural monitoring, biomedical applications, industrial processes,

Mar 07, 2026

Fiber Bragg Gratings – Buyer's Guide & Supplier List

This buyer's guide for fiber Bragg gratings provides technical background, comparison of major types,

Oct 13, 2025

Fiber Bragg Gratings – Precision Light Control Solutions

Discover Fiber Bragg Gratings (FBGs) for precise light control, high durability, and compact designs.

Aug 27, 2025

Photonic crystal fiber long-period grating absorption gas sensor based ...

To overcome this issue, a photonic crystal fiber (PCF)-based spectroscopic absorption sensing platform is proposed.

Jan 04, 2026

Fiber Bragg Grating | Telecommunication Systems Business Unit

Fujikura's Fiber Bragg Gratings (FBGs) offer precise wavelength reflection and transmission, delivering optimal optical performance

Dec 15, 2025

Optical fiber Bragg grating (FBG)-based strain sensor embedded in ...

A compact fiber Bragg grating (FBG)-based strain sensor has been developed by embedding an FBG inside a 3D

Dec 23, 2025

(PDF) Optical fiber Bragg grating-based pressure sensor for soil ...

PDF | On Aug 2, 2023, Muhammad Syamil Mohd Sa''ad and others published Optical fiber Bragg grating-based pressure sensor for

Nov 03, 2025

O/E Land Inc

Fiber Bragg Gratings (wavelength from 400 nm - 2400 nm), Gain Flattening Filters, DWDM Gratings, Dispersion Compensation

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