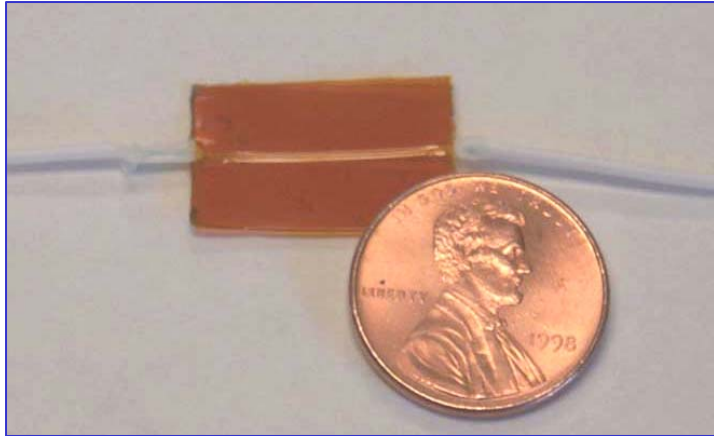


# Fiber Bragg Grating Ultra-Pack

**FBG-UP**

## Applications

Structural monitoring for civil, aerospace, marine, and other structures

Strain measurement package

## Features

Multiplexible - FBG-based design allows for serial multiplexing

Wavelengths available: 1525 - 1565 nm and 815 - 865 nm

Small size, similar to resistance strain gage packaging

FC connectors (typical), others available on request

## Description

The FBG-UP is a fiber optic strain gage capable of providing strain measurements for most applications. Optical Fiber Bragg Grating (FBG) sensors respond to strain by a shift in their optical wavelength. Aither Engineering, Inc.'s (AEI) Ultra-Pack sensor design allows for strain measurement using a securely packaged FBG sensor. This unique, compact packaging allows novice engineers and technicians to apply FBG sensors to test structures using practices very similar to resistance strain gage technology.

The robust packaging can withstand the rough handling of sensors often experienced in many outside-the-lab testing environments.

This product can be easily combined with AEI's other sensing products to provide a complete sensing system for monitoring the structural response (thermal, strain, and acceleration) for almost any application.

## Selected Specifications

Linear strain range	-2000 to 2000 $\mu\epsilon$
Linear temperature range	-20 to 100 °C
Maximum temperature range	-50 to 150 °C
Overall Dimensions	1.91×1.27 cm

### Ordering information

Product number:

FBG-UP- $\alpha$ - $\beta$ - $\alpha$ -AEI

$\alpha$ - Connector style	$\beta$ - Wavelength range
0 - no connector	800 or 1550
1 - FC/PC	You may request a specific
2 - FC/APC	Bragg wavelength, please ask
3 - ST	for details
4 - SC	

Example: FBG-UP-1-1550-1-AEI

Custom designed sensors can be produced upon request. For more information please contact us at:

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Sensor



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