

Fiber Bragg grating for liquid level measurement



Overview

In this work, a versatile liquid level sensor using Femtosecond-Laser-Inscribed Fiber Bragg Gratings (high tensile strength) is designed and implemented for accurate measurement of liquid level with the ca.



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We describe a fiber-optic system to measure the liquid level inside a container. The technique is based on the extraction of the temperature profile of ...



In this work a simple yet effective liquid level sensor based on FBG is demonstrated. The experimental setup was tested with tap water.



A highly sensitive liquid level monitoring system based on microstructured polymer optical fiber Bragg grating (mPOFBG) array sensors is reported for the first time.



In this paper, we present a polymer optical fiber (POF) Bragg grating (FBG) to measure liquid level based on Archimedes' law of buoyancy. The sensor consists of polymer 3D-printed rods with different ...



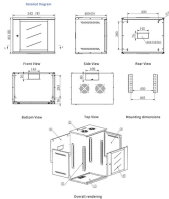
The design and packaging of simple, small, and low cost sensor heads, used for continuous liquid level measurement using uniformly thinned (etched) optical fiber Bragg grating ...



In this paper, we present a fiber sensor using a fiber Bragg grating encapsulated in a half-polymer-filled metal cylinder for measuring liquid level variation. The operating mechanism of this ...



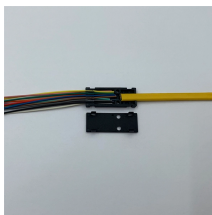
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The fiber Bragg grating (FBG) liquid level sensor is designed to measure the liquid level inside the sensor chamber.



This article presents the development of a liquid-level sensor using fiber optic Bragg gratings (FBG). The sensor comprises a carbon-fiber-reinforced polymers (CFRP) diaphragm packaging an embedded ...



The fiber Bragg grating (FBG) liquid level sensor is designed to measure the liquid level inside the sensor chamber.



We describe a fiber-optic system to measure the liquid level inside a container. The technique is based on the extraction of the temperature profile of the fiber by using a fiber Bragg ...



Obtained results pave the way for the exploitation of the proposed platform for accurate liquid level monitoring in large-scale storage tanks, useful both for petrochemical industry and for ...

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