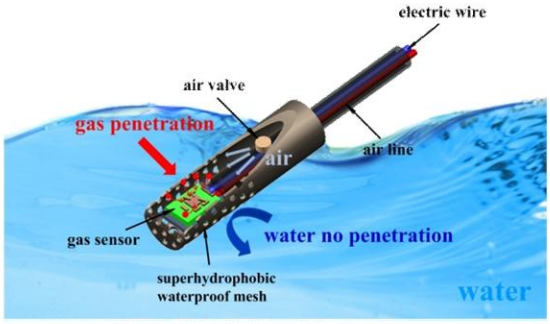
Gas Sensor Assembly
Underwater Gas Detecting System

Technology Overview

○ It is a gas sensor assembly to measure concentration of trace gases using a technology to measure concentration of a specific gas underwater in real time such as dissolved oxygen, carbon dioxide, etc. within the river water

○ It enables prompt measurement in the field through remote transmission/receiving device to get precise measurement results.

Picture



○ To suggest new technology to pattern 3D shaped surface using curvature optical lithography technology, and develop new concept of superhydrophocity mesh tube with micro mesh surface using the surface.

○ The suggested mesh tube has characteristics to allow waterproof and material waves such as gas or sound wave to be transferred inside itself.

○ To verify possibility of industrial application by combining micro mesh tube and gas sensor to evaluate performance

Features

Real Time Concentration Measurement of Specific Gases Underwater in Real Time
It is possible to precisely measure concentration of gases contained in the water.
It can be utilized for environmental monitoring gas detection system.
It is possible to measure gases within beverages and human body.
It does not adhere location when measuring gases underwater.

Technology Develop

◆ Knowledge Property Right: Patent

◆ Name of Country: Korea

Technical Cooperatio

◆ Technology License
◆ Technology Commercialization

◆ Joint Product Development