



AREFSENS Electronics Biotechnology
Industry and Trade Incorporation

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RFSENS, provides radio-frequency sensor solutions for real-time monitoring of water quality and *in-vitro* diagnostics.

Prevailing method for the analysis of water is periodically taking samples and sending to laboratories. In underdeveloped and developing regions, however, these analyses can be made monthly or even yearly. Thus, for the prevention of epidemics due to intentional or unintentional contamination of water sources, real-time sensing devices are needed.

RFSENS develops radio-frequency sensors which use electromagnetic waves to provide high sensitivity, real-time biological and chemical sensing in liquids and gases. These sensors are fabricated with MEMS-microchip technology at low cost and high volume. The patent pending technology is supported by METU Technopolis and awarded in 3 innovation competition. First application of these sensors are «Online Contamination Detection Systems» for drinking water and «Bacteria Sensors» for on-site, rapid detection of pathogens. Later, this technology will be exploited for BOD/COD analyses to be used in Wastewater treatment facilities.

Target customer segment is consist of global companies such as GE, Siemens, Municipalities and Governments in EU and U.S, Water distribution and treatment systems and other individuals and public organizations.



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