



POPs Simple Analysis Kit

Quick assay for Persistent Organic Pollutants (POPs)

Earth Solution
www.earthsolution.co.jp

The company was established in 2006 as a pioneer in bioremediation of contaminated groundwater and soil. The company also works on biotechnology for analytical detection of organic pollutants.

Urea Quality Sensor(UQS) contributes to enhance the functionality of the Urea-SCR system which is an indispensable system for detoxifying NOx exhaust from large diesel engines of trucks, construction and agricultural machinery, as well as passenger vehicles with smaller diesel engines. The UQS has a role in monitoring of the quality level of the urea solution. UQS uses a unique technology: It employs the method of detecting thermal coefficient: the world's first technology developed by SUN-A. Urea solution, like all other liquid, have particular heat transfer rate depending upon urea concentration. Thus, the sensor is designed to detect the infinitesimal difference in thermal coefficient. Our UQS can measure the urea concentration and the temperature with high resolution and accuracy, and it detects if the tank is empty and if the tank is contaminated from diesel oil.

Measurement principle

