One Resonance Sensors ORS

Portable
Analysis Tools

Advanced Technology

Speed to Reliable Results

Laboratory, Field and Process Control Solutions

Revolutionary. Portable. Unmatched.

Innovative Measurement Methods

For industry firms looking for rapid time to reliable results, the ORS table-top analyzer is the most efficient, portable, and affordable product in the marketplace. Our proprietary product technology and operator interfaces provide superior capabilities and value for solution analysis.

ORS uses miniature NMR technology to accurately measure the number of specific elements per unit of volume in a solution. The portable MobiLab™ 130 analyzes your samples everywhere. The results are highly repetitive and are not affected by interference from other elements in the solution.

For more information, visit our website at detect-ors.com

ORS provides innovative detection and analysis tools that dramatically improve efficiencies in these markets:

Energy

Efficiencies in energy production and storage are of critical importance worldwide. Learn more about the contribution that ORS makes to improve efficiencies in this rapidly growing market.

Chemistry

Analytical labs involved in industrial or academic research, as well as production, require precise, reliable instruments. Learn more about the innovative technological approaches employed by ORS to provide market leading, cost-effective instrumentation.

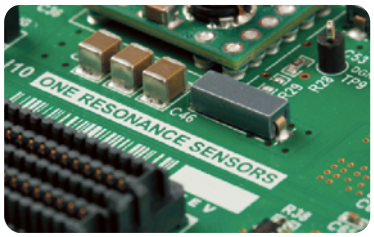
Security

The U.S. Transportation Security Administration and European agencies are working to improve the safety and comfort of travelers passing through the world's transit checkpoints. Learn more about how the innovative technology of ORS can help these efforts.

To find out more visit us at detect-ors.com.

Revolutionary Approach

Innovative and powerful analytical capabilities to determine element concentration with high precision. ORS uses strong magnetic fields and radio-frequency waves to rapidly characterize liquids.



Simplified Solution

Extremely Efficient Process

Scan >>> Measure >>> Results

* For more detailed information about our innovative solutions, visit the **TECHNOLOGY** section of our website.

Advanced Technology

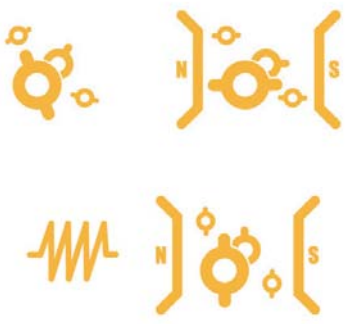
Precise Element Concentration in Seconds

ORS uses Nuclear Magnetic Resonance methods in innovative ways to offer powerful analytical capabilities.

- ✓ Creation of revolutionary detection, analysis and process control methods
- ✓ Development of top-of-the-line radio-frequency instrumentation
- ✓ Design and fabrication of innovative magnet arrays, including the highest field permanent magnet in the market
- ✓ Introduction of valuable science and technology intellectual property

Counting Atoms

If the right amount of energy is supplied to the spin system by a radio frequency wave, those nuclei temporarily move out of the low energy state, which is equivalent to a rotation of the net magnetic moment. In the MobiLab™ 130 series, that is done by applying a radio-frequency magnetic field, tuned precisely to the resonance frequency of the element being detected.



Introducing the Revolutionary

MobiLab™ 130

Market leading performance in the analysis of brines and solutions.

Innovative Measurement Methods

Powerful Detection Technology

Open the box and measure. The MobiLab™ 130 provides a highly intuitive user interface. The concentration of Lithium is determined in seconds. ORS also offers versions of the MobiLab™ 130 to measure the concentration of other elements such as Aluminum, Boron, Fluorine, Iodine, Phosphorous, and Sodium.

- ✓ Compact and portable
- ✓ Answers in seconds
- ✓ No sample preparation
- ✓ Use by non-technical personnel
- ✓ Zero maintenance
- ✓ Rapid ROI

Product Specifications

Single-Touch Configuration

Size: 48 cm width, 25 cm height, 25 cm depth

Weight: 8.3 Kg

Power: input 10 to 28 V DC at 5 A. 110-240 V AC transformer and power cord included

ORSRFB Radio-Frequency Controller: single channel broadband ADC reprogrammable system

Magnet: ultra-compact high field homogeneity permanent magnet array with passively shielded stray field

Touch Screen: 8" TFT Full VGA high-brightness LCD

Connectivity: USB

Temperature of Operation: 10 C to 50 C – extended-range instruments available as special orders

User Interface: Graphical User Interface with intuitive operation

Sample Vial: glass test tube, 5 mm outside diameter, 100 mm length or longer

MobiLab™130-Li

Measuring Solution

Quickly produce accurate measurements of element concentration with virtually no sample preparation requirement.

For more information or a risk-free demo contact us at +1-619-501-5750 or visit us at detect-ors.com

One Resonance Sensors ORS

Portable
AnalysisTools

Reliable. Compact. Efficient.

Simplified Solution

Extremely Efficient Process

Scan >>> Measure >>> Results

ORS offers the ability to complete a brine analysis in less than one minute as well as to place the instrument where current technologies do not work, such as harsh field environments.

On-Site Performance Perfected

Lithium, Aluminum, Boron, Fluorine, Iodine, Phosphorous, and Sodium.

A portable analyzer for aqueous or organic solutions ***as is***. Fast and accurate answers in the laboratory or in the field.

* For more detailed information about our innovative solutions, visit the **TECHNOLOGY** section of our website.

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About One Resonance Sensors (ORS)

We introduce innovative, proprietary analytical instrumentation that provides unmatched value to several industries. The company specializes in compact Nuclear Magnetic Resonance instrumentation and Electromagnetic sensors. We offer market-disruptive tools for mining, security, and chemical analysis applications.

ORS was created in 2011 around a strong intellectual property base and a team of highly experienced technical and management personnel. Most of the team members have worked together on various product development and research projects for almost 15 years. ORS has two facilities in San Diego, California – one of the best technology hubs in the US.