



Trace element sensor

Ref : OT-00056



Technology's description

The TRACESENSE system will be putting simple, low cost, disposable monitoring devices in the hands of non-expert users. It makes environment monitoring at high spatiotemporal resolution accessible to anyone. Elemental, molecular and isotopic analysis can be easily disclosed through social participation, anticipating the effect of emerging contaminant.

Traceability of data and measurements is made possible through seamless and real-time data publishing and transmission.

Keywords

Specifications: •ARM Processor low consumption •Chipset Bluetooth Low Energy, OTA updates possible •Flash Memory
 •Sensors: UV, IR, visible, pressure, temperature •Accelerometer 3 axes (angle measurement), gyroscope, magnetometer
 •RTC: clock providing date and time for data tracking •Single battery with integrated management (charge, capacity) with induction charging •All Wireless : communication, battery charge, firmware updates...

Laboratory

GEOSCIENCES,
ENVIRONNEMENT,
TOULOUSE

Inventors

- David Point, IRD

Advantages

- Usable in air/water
- Sampling time
- No Biofouling
- Easy to use for a non technical user
- Easy to transport and set up
- Autonomy
- Miniturized and connected
- Low cost

Industrial applications

Air and water monitoring, Pollution management

Intellectual property

This technology is ready to license

Technology transfer

- License

Contact

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Development stage

While the TRACESENSE system is still being improved, it is also available to any partner, distributors or users who want to invest in new ways to characterize any aquatic system. Several potential clients have already been identified and the project is being followed by many experts.

•PROTOTYPE– Our latest prototype of the device is already available, in limited quantities, and tailored on certain type of trace elements. •CUSTOM DEVELOPMENT – Our development team is available to fulfill your project and focus on any targeted contaminant. •LICENSING PROGRAM– As a patented and branded innovation, TRACESENSE is available for licensing.