

SensorRAE

Electrochemical Conditioning Station



User's Guide

The SensorRAE is a 4-socket electrochemical (EC) sensor conditioning station that keeps RAE Systems' EC sensors ready for immediate use while they are not installed in a RAE Systems multi-sensor product. EC sensors must reach an electrically stable state to provide accurate, reliable performance. While it takes less than an hour for a CO sensor to stabilize, it takes *at least* 24 hours for a NH₃ sensor. SensorRAE maintains sensors in a ready-to-use state. (Refer to RAE Systems Technical Note TN-114 for more information.)

Features

Practical: Users with just one multi-sensor detector can have a complete suite of RAE Systems electrochemical sensors ready to go.

Convenient: The SensorRAE holds four easy-to-plug-in sensors at a time and is suitable for both low bias and high bias (NH₃ & NO) sensors.

Durable: The sensors are protected in a rugged, compact, waterproof Pelican™ case with a transparent lid.

Low-Maintenance: Four AAA batteries power the SensorRAE for at least 12 months and the conditioning station also includes a battery test button with an LED indicator.

Specifications

Size: 5.4" x 4.0" x 2.1" (13.7 x 10.2 x 5.3 cm)

Weight without sensors: 10 oz (285 g), with batteries

Power: 4 AAA alkaline batteries

Rating: Waterproof

Supports the following RAE Systems Products:

MultiRAE Plus

MultiRAE-IR

AreaRAE, AreaRAE Gamma, and AreaRAE IAQ

SentryRAE

VRAE

QRAE Plus

IAQRAE

Use with RAE Systems' **Electrochemical Sensors:**

CO, H₂S, SO₂, NO, NO₂, Cl₂, HCN, PH₃ and NH₃



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When a specific EC sensor is required, remove it from the SensorRAE and insert it into the RAE Systems detector.

... or gently press the corners of the pc board down so the opposite side pops up...



The standard alarm points and calibration values will automatically be loaded into the detector. Reassemble the detector and turn it on. Calibrate the EC sensor, and it is ready for use. **For the greatest safety and optimal performance, it is necessary to calibrate an EC sensor with its corresponding gas *anytime* it is moved from the SensorRAE to a detector.**

Use 4 AAA alkaline batteries for the SensorRAE. They typically last for 12 months.

Press the button to test the battery life. If the LED lights up, the batteries are good. The batteries are located on the underside of the printed circuit board. To remove, use a key to gently pry the pc board up...

