

## the open air quality platform

South Coast Science only makes air quality monitoring equipment. In collaboration with Alphasense, leader in environmental gas sensors, it develops and builds precision monitoring equipment engineered for deployment of high density air quality monitoring networks.

### Specialists in air quality

Founded in response to a market call to design a standard digital front-end for Alphasense electrochemical sensors, South Coast Science went further to develop and manufacture the Praxis device.

The Praxis surrounds digitisation of electrochemical sensing data with a device capable of delivering accurate data in hostile climates via flexible data infrastructure options.

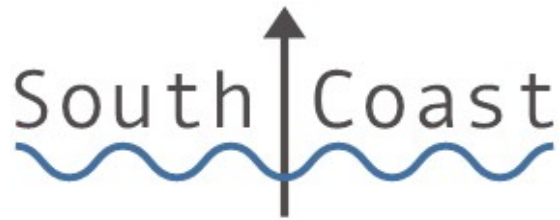
South Coast Science continues to develop new digital front-end subsystems for a variety of sensor types in collaboration with Alphasense.

### Practical deployment

With an unusual commitment to open design - for example, maintaining users' access to the raw sensing data - South Coast Science is becoming established as an authority in the configuration of air quality electronics and data systems.

South Coast Science delivers out-of-the-box systems for end users alongside customisable hardware options and open source software for use by OEMs or domain specialists. Its products offer support for multiple analysis techniques, including any sample rate and real-time access.





## customisable hardware and data delivery

South Coast Science provides complete systems starting with accurate sensing technology, in devices designed for a broad operating climate, through to real-time data visualisation and delivery to the desktop. Subsystems and components are available separately and can be configured to meet customer requirements.

### Hardware:

- Complete devices for urban or internal air quality monitoring with a range of data infrastructure options
- Electronic subsystems ready for integration within customers' existing technology or new product lines

### Software:

- Open source device applications firmware: for integration with other sensors and electronics also for flexibility in data infrastructure used and how it receives the application output
- Open source data retrieval, analysis and visualisation: for integration of data output within customers' own dashboard or to combine South Coast Science data retrieval with other data sources

### Infrastructure:

- South Coast Science managed data service: built over Amazon Web Services (AWS) and tailored for air quality monitoring
- South Coast Science data infrastructure under license: Amazon Web Services Lambda functions on customers' AWS account
- OpenSensors community edition: Enables data publishing, subscription and storage with free-of-charge use for public data. Suited to device testing
- OpenSensors building management framework: specialised high level services including data publishing, storage and OpenSensors dashboard access
- Customers' own infrastructure

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