

## Portable Handheld Electronic Nose

For over 15 years **the Sensigent team** has produced electronic nose instrumentation for odor and chemical measurement, starting with the world's first handheld **eNose®**, the **Cyranose® 320**. Sensigent's proprietary sensor and data fusion software technologies are backed by **60 patents** in the US and worldwide.

The **Cyranose® 320** is a rugged, efficient and affordable instrument to quickly perform on-site analysis. It is used by manufacturing and quality professionals to make accurate determinations of the aroma quality associated with their products or raw materials. It is used in R&D and product development to assess new materials, formulations and products.

The **Cyranose®** incorporates the patented **NoseChip™** nanocomposite sensor array, internal air sampling pump and advanced pattern recognition algorithms. These technologies enable rapid detection and identification of substances and mixtures based on their chemical profile.

Each **Cyranose®** is customized to your sensing application. Multiple applications are programmed and stored on the instrument as individual methods. Non-expert users simply select the appropriate method by name and begin making measurements. The results are displayed with user-defined, simple and actionable messages, such as "pass", "fail", or "Formulation 15" and a 5-star quality rating. All results are stored in the on-board database for easy access and reporting. Rapid qualitative measurements or "sniff" tests lasting 5 to 15 seconds for discrimination and identification can be extended to quantitative headspace analyses using suitable standards for calibration.



The **Cyranose® 320** is used for consumer products, chemicals, foods, beverages, packaging, plastics, pet food, pulp and paper, as well as outdoor air quality and environmental odor control. It is widely used for medical research for screening of upper respiratory and lower GI tract disease by measurement of breath and fecal samples. As of 2016, there are nearly 250 industrial and medical research publications from **Cyranose®** users worldwide.

### Key Features and Benefits

- Battery-operated handheld instrument with internal air sampling pump
- Measures gases and vapors from liquids and solids directly with no sample preparation
- Internal database of measurements and log files for raw data and processed results
- Multiple classification algorithms are built-in; no computer needed for routine work
- Chemometric software provides extended data processing and analysis algorithms
- "Plug & play" sensor modules provide custom nanosensors for special applications