



OdourScan

Model 2000 Electronic Nose

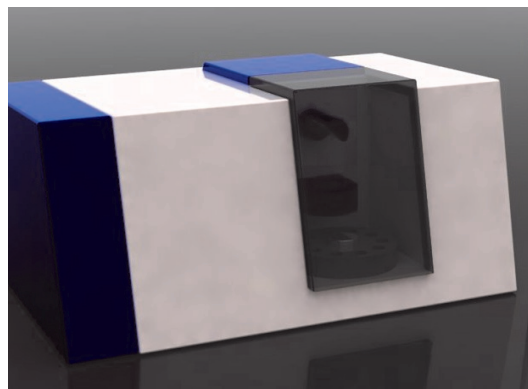
OdourScan is an electronic nose device that can be used to consistently measure the smell or aroma of materials such as food, grains, beverages, etc. OdourScan uses a set of 6 electrochemical sensors that respond to different sources of odour, e.g., aromatic hydrocarbons, aliphatic hydrocarbons, aldehydes, amines, sulphides and others. By sampling the headspace above a sample of food or other material, OdourScan can be used to determine if the odour is consistent from batch to batch or if the odour is changing over time.

OdourScan has been developed as a tool for food and beverage manufacturers, grains and fruit producers, and any other processor of agricultural products.

Operation

A fixed mass of a sample is placed into a petri dish which is then loaded into the sample drawer. The OdourScan takes a background reading and then the drawer is closed. OdourScan then sucks purified air over the sample and passes the air onto the sensory panel where the components in the odour react with the sensors. Each sensor has a unique response to each component.

OdourScan's software compares the response of each sensor to a stored file for that material. The pattern and the intensity of these sensor responses is used to determine whether the odour is the same as the library file and provides a semi quantitative assessment as to how close a fit the odour is to the library file.



Sensors

A selection of sensors is available to optimise OdourScan to a specific odour or a selection of products.

A unique feature of the sensors is that they are self cleaning. The electronics cycles the voltage across the sensor so that once the electrochemical reaction has take place and the signal recorded, the odour components are literally burnt off the surface and carried away with the air stream. This leaves the sensor clean to collect the next reading.

OdourScan's sensors are rugged and have an extremely long life time as compared with many other odour sensors.

OdourScan Features

- Simple flow through system with built in cleaning cycle
- Selection of sensors to optimise measurements
- Cost effective system designed for QC
- Touchpad screen operation

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