



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 sample bottle which is then loaded into the sample compartment. A stainless steel probe is inserted into the bottle through a rubber septum. OdourScan uses a syringe to withdraw a fixed volume of the headspace gases from the bottle and then injects the sample into the sensor system where the components in the odour react with the sensors. Each sensor has a unique response to each component.

OdourScan's software applies a stored calibration model to the response from the six detectors in order to provide a quantitative assessment of the concentration of the odourants contained in the headspace.



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 taken 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
- PC operation with full reporting and data storage.



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