Aroma Coder®V2 Set

What is Aroma Coder®V2 Set ?

Aroma Coder®V2 Set is a desktop type smell measurement device equipped with a high-performance smell sensor that can measure much like the olfactory organs of living things. It is more compact and lightweight than the original Aroma Coder®35Q model for easier handling. Just place a few drops of analyte into sample holder allow it to stabilize and start measuring. Our quartz crystal microbalance(QCM) array converts invisible smell into electronic signals that can be visualized by the included software, allowing objective assessment of various smells.

Mechanism of smell measurement

The detector unit within the device is equipped with 35 absorption membrane that adsorb volatile organic compounds (VOC) gas emitted by sample, where each membrane consist of different adsorption/desorption characteristics. Thirty-five sets of frequency change data are obtained from a single measurement.
The adsorption membranes are coated on the QCMs. When VOC’ s are adsorbed onto/desorbed from the surface of the membrane, the change in mass of the QCM is captured as a change in the oscillation frequency of the QCM.
By measuring this change in frequency of the individual QCMs, the 35 sets of data may be transformed into an overall response pattern, the smell visualization pattern of the Aroma Coder®V2 Set.

[Usage image]
Quality control, deterioration detection

When quality is judged based on the human senses of sight and smell, individual differences can occur, but we aim to reduce the variation among individuals by using sensors.

Potential applications: Quality control and product development in the food, beverage, daily necessities, and cosmetics industries.

Connection image for Aroma Coder®V2 Set

Features of Aroma Coder®V2 Set

1. Stable smell measurement

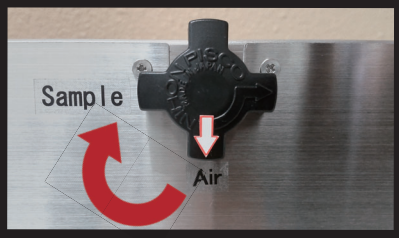
It is possible to measure smell changes in detail by having the sample sniffed while the air of the measurement environment is supplied. It is also possible to stably measure fine smell samples such as aqueous solutions and beverages.

2. Simple sample mounting

By installing a sample bottle on the outside, measurement can be performed according to the conditions. Since the connection with “Aroma Coder®V2 Set” uses commonized connection parts, you can customize you own system by combining measurement components and adding units to suit your application.

3. Easy measurement operation

The sample switching switch on the front of the “Aroma Coder®V2 Set” allows for easy measurement. Since the air of the measurement environment is taken in, the smell refreshment is stable.



4. Improved measurement of samples that were difficult to measure

The installation of a dehumidifier makes it easier to see the absorption/desorption of smells on the sensor membrane, even for samples for which stable smell measurement was difficult due to their tendency to absorb moisture.

Product Specification

[Aroma Coder®V2]

Overall dimensions: 112 W×155 L x 126 H (mm)
Stand: 112W×123L x 90H (mm)
Weight: Approx. 1.5kg
Data output: USB2.0
OS: Windows 10
Power supply: AC100-240V

[Aroma Sampler™]

- Overall dimensions: W 340 × L 100 × H 194 (mm)
- Weight: Approx. 4.0 kg
- Stand (with a funnel): W 112 × L 118 × H 90 (mm)
- Sample bottle (GL45 compatible):
  100ml Glass container, ϕ56 x H 100 (within the caliber ϕ29.8)(mm)
- Sample lid (GL45 compatible): ϕ54 × H 48 (Inside Diameter ϕ45)(mm)
- Operating temperature and humidity range:
  Temperature +23～ + 50℃ / Humidity 12～65% RH (No condensation)
- Transport/Storage temperature range:
  Temperature -5 ～ + 50℃ / Humidity 85% Lower than RH (No condensation)

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*Please note that the appearance and specifications of this product may be subject to change. 202204_V4.0

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