



# 1-CUBE

Hamry 3567, 58001 Havlíčkův Brod, Czech Republic.

tel + 420 569 433 620

1-cube@1-cube.com

www.1-cube.com

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## SAMPLER ICAS

### **Application:**

The ICAS Sampler is used for sampling beverages from glass or PET bottles and cans. Sampling is carried out without exposure to ambient air, which enables accurate determination of dissolved oxygen using oximeters or measurement of foam stability.

### **Working Procedure:**

Place the container (bottle or can) onto the lift platform and press it against the rubber seal using the lever. During lifting, the container is automatically sealed, and the closure is subsequently pierced. A stainless-steel needle is then inserted down to the bottom of the container, and the valve for supplying protective gas (CO<sub>2</sub> or N<sub>2</sub>) is opened. The resulting overpressure smoothly forces the beverage sample directly into the connected measuring instrument without any air contamination.





**Description of the device:**

The device consists of a stand with a lifting mechanism, a height-adjustable piercing unit, a rubber seal, and a stainless-steel sampling tube with an attached polyurethane hose.

**Scope of Delivery:**

- Sampler type ICAS
- Connection tubing
- Operating manual

**Accessories (optional):**

Adapter for PET bottles (not included in the standard delivery).

**Technical data:**

Parameter	Range/Value
Container height	minimum 50 mm, maximum 350 mm
Container diameter	minimum 30 mm, maximum 110 mm
Weight	3.5 kg
Dimensions	185 x 150 x 570 mm

### **Advantages & Benefits:**

- The sampler can be used with containers of various heights and diameters.
- **Long-standing experience:** We have been manufacturing samplers for over 25 years and have produced hundreds of units during this time. Our samplers are used by major companies such as Heineken, Asahi, Anheuser-Busch, and Budweiser Budvar, as well as by small producers.
- Excellent value for money.
- When supplemented with a shaking pump (for releasing CO<sub>2</sub> from the beverage), a digital thermometer, and a nomogram, the device can also be used to determine the CO<sub>2</sub> content in the beverage.

### **FAQ:**

#### **Which oximeter can the ICAS sampler be connected to?**

The ICAS Sampler can be connected to any type of oximeter.

#### **What can affect the accuracy of oxygen measurement?**

Measurement accuracy can be negatively affected, in particular, by the use of unsuitable tubing, as oxygen can permeate through the tube walls into the beverage. For example, silicone hoses are unsuitable because they are oxygen-permeable. In contrast, hoses made of polyether-based polyurethane are ideal as they are impermeable to oxygen. Therefore, we recommend using only the original tubing supplied with the device.

#### **What is the minimum required purity of CO<sub>2</sub> or N<sub>2</sub> gas for displacing a beverage sample from its container into an oximeter, to avoid negatively affecting the oxygen measurement?**

The minimum percentage purity of CO<sub>2</sub> or N<sub>2</sub> gas must be **99.999%**, with a maximum impurity content of **< 10 ppm**, designated as **grade 5.0**.