



# 1-CUBE

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## CO<sub>2</sub> DIGITAL MEASURING INSTRUMENT - ICD, ICDK

### Measuring device to determine the content of:

- CO<sub>2</sub> in solution (beer, saturated beverages, sparkling wine) in bottles, PET bottles and cans.
- Air in the bottle head space and can head space with optional burette.

### Principle of measurement:

Our device for determining the CO<sub>2</sub> content is based on the Henry law principle. CO<sub>2</sub> is determined by a measurement of the balance value of temperature and pressure after the mechanical releasing of CO<sub>2</sub> which is dissolved in solution.

### Description of the device:

Our device consists of a piercing needle, device stand, a container lifting mechanism and parts to obtain the mechanical release of CO<sub>2</sub>, a vessel for lye, interconnecting hoses, microcomputer, keyboard, pressure and temperature sensors.



### **Technical parameters:**

range of CO <sub>2</sub> measurement.....	2 - 9.99 g/l or 1- 5.15% vol. or 0 - 0.999% w/w
range of temperature measurement.....	-3 - + 30 °C or 26 - 86°F
range of pressure measurement.....	0 - 600 kPa
accuracy of CO <sub>2</sub> content measurement.....	+ - 0.05 g/l or + -0.025% volume
accuracy of temperature measurement.....	+ - 0.05°C
accuracy of pressure measurement.....	+ - 0.5%
size.....	530x240x300mm (h x w x d)
weight.....	3.0 kg
measuring range of gas burette.....	0 - 12 ml of air

### **Base Model:**

Consists of the measuring device, AC/DC adapter and operating instructions.

### **Optional Accessories:**

Add for measurement of CO<sub>2</sub> in PET bottles or cans, burette.

**Note:** Accessories may be purchased as required.