



# 1-CUBE s. r. o.

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

### Measuring device makes it possible to determine the content of:

- air in the glass bottle head space, can head space and party casks
- CO<sub>2</sub> content in solution (beer, saturated beverages, sparkling wine) in bottles, PET bottles and cans

### 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.



### **Base Model:**

Consists of the measuring device, adapter and operating instructions.

### **Optional Accessories:**

Gas burette

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

### **Technical parameters:**

range of CO <sub>2</sub> measurement.....	0 - 9,99 g/l or in volume percentage 0-0,999% vol.
range of temperature measurement.....	-3° - + 30 °C or in °F
range of pressure measurement.....	0 - 600 kPa or in bars or psi
accuracy of CO <sub>2</sub> content measurement.....	+ - 0,05 g/l or + -0,005% volume
accuracy of temperature measurement.....	+ - 0,5%
accuracy of pressure measurement.....	+ - 0,5%
size.....	530x240x300mm (hxwxd)
weight.....	3,0 kg
measuring range of gas burette.....	0 - 12 ml of oxygen