

CARBOMETRIC ANALYSIS UNIT mod. UC09
OPERATING SPECIFICATIONS

Application:	Measurement of carbonated soft drinks, in bottling or premixing
Type of measurement:	Dissolved CO ₂ concentration measurement, based on (IR) ray absorption and transmission of the relative value. The technique used is known as "Attenuated Total Reflectance" (ATR).
Measurement limits:	0...6 v/v (0...12 g/l)
Accuracy:	±0.05 v/v (±0.1 g/l)
Measurement scales:	"v/v (Gas/Vol)" or "g/l"
Measurement interval:	3 secondes
Product temperature during measuring:	-5...+35 °C [23...95 °F] with automatic compensation for temperature measured by Pt1000 Temperature Probe, Class "A" according to IEC751
Relative line pressure:	max. 10 bar (145 psi) at 90 °C (194 °F)
Sanitization limit conditions:	Refer to document 90034H367_

GENERAL SPECIFICATIONS

Power supplies	Electric: DC 24V ±10% 10W
Interfaces	Digital: RS485
Notes:	Connections to the appliance are made via a metal multipole connector. The appliance is supplied together with the IB08-K Analysis System, to which it must be electrically connected.

CONSTRUCTION FEATURES

Execution:	Enbloc housing with AISI 316 stainless steel lid, PEEK™ heat insulating flange, AISI 316L stainless steel prism holder with N type Varivent® fitting for installation on the process line
Measurement section:	Synthetic sapphire measurement prism. Pt1000 temperature probe inside the appliance.
Electronic section:	Central "CPU" unit with microprocessor
Parts in contact with the product:	Prism holder in AISI 316L stainless steel. O-rings and gaskets in VITON+ KALREZ 6230. Synthetic sapphire measurement prism.
Notes	The optical section of the analyzer is dehumidified by means of specific moisture extractor
Dimensions and weight:	Ø176 (b) x 255 (h) x 143 (p), 3.3 kg

TECHNICAL-NORMATIVE SPECIFICATIONS

Environmental features	Temperature limits: <i>Environment:</i> -10...+45 °C (14...113 °F) <i>Storage:</i> -20...+70 °C (-4...+158 °F) Humidity limits: <i>Environment:</i> 5%...95% (R.H without condensate) <i>Storage:</i> 5%...95% (R.H without condensate) Altitude limits: <2000 m a.s.l. Degree of Protection: IP67 in accordance with EN60529
Conformity to Directives:	EMC: 2014/30/EU EC: REGULATION 1935/04/EC EC marking of conformity to EU Directives