

DIGITAL CARBOMETRIC UNIT UC05

Technical Datasheet n° 90034H1110

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TECHNICAL-NORMATIVE SPECIFICATIONS Environmental features	A "Multidrop" connection can be used to interface up to 32 "UC05 Measurement Systems.
<i><u>Temperature Limits</u>:</i> <i>Environment:</i> +5°C+45°C (23°F113°F).	<i>Inputs:</i> N°1 input for the acquisition of the "Line Stop CO ₂ " status and consequent blocking of the measurement.
<i>Storage:</i> -20°C+50°C (-4°F122°F). <i>Humidity Limits:</i>	<i>Outputs:</i> N°1 relay output for alarm condition signalling or for activating the production line block, with 2A/24V DC/AC contact.
Environment:+5%+95% (R.H. without condensate).Storage:+5%+95% (R.H. without condensate).Altitude Limits:<2000 m b.s.l.	All the interfaces are optoinsulated from the power supply (VDE0160). Connections to the equipment are made using two pre-assembled circular, multipolar connectors each supplied with
<u>Protection Degree</u> : IP64 in accordance with EN60529. Conformity to Directives and Standards <u>LVD</u> : CEE 73/23, 93/68 and subsequent modifications;	5m of cable; a special polycarbonate "Interconnection box" (IP55) with pre-wired connecting cables to the Unit, is provided for the connection. All external connections must be made by means of connections to the terminal inside the box.
EN 61010-1 (1994) <u>EMC:</u> CEE 89/336, 93/68 and subsequent modifications; EN 50081-2 (1994-Generic Emission)	CONSTRUCTIONAL FEATURES
EN 50082-2 (1994-Generic Immunity) EN 61000-3-2 (2001-Harmonic Emission) EN 61000-3-3 (2001-Voltage Fluctuations) EN 61000-4-2 (1996-Electrostatic Discharges) EN 61000-4-3 (1997-Electromagnetic fields RF)	Execution: Enbloc equipment with main components in AISI 304/316 stainless steel; installation on the process line by means of a mounting fitting with 1" Tri-Clamp® fittings.
EN 61000-4-3 (1997-Electromagnetic fields RF) EN 61000-4-4 (1996-Fast Transitors) EN 61000-4-5 (1997- High Volt. Impulse Immunity) EN 61000-4-6 (1997- Conducted RF Disturb. Immunity) EN 61000-4-11 (1997-Immunity to Voltage variation)	Measuring section: - Relative pressure Sensor in AISI 316 stainless steel & Hastelloy C276. - "Mechanical shock" degassing system with high extraction potential obtained by means of
* CE marking of conformity to EU Directives and listed Standards.	magnetic drive Rotor and polar expansion Stator. - Continuous cyclic analysis, activation of
<u>Application:</u> Measurement of sugared or diet carbonated beverages and mineral waters, in process lines.	cam/connecting rod and consequent valves and depression membrane, by means of Brushless drive motor with low power absorption.
<u>Type of Measurement:</u> Measurement, on the basis of the relation between the Saturation Pressure and its temperature (Henry's Law), of the continuous cycle carbonation and display of the dissolved CO ₂ value in the selected "g/l" or "V/V (Gas/Vol)" scale.	 Electronic Section: - "CPU" control unit with microprocessor with management software on interchangeable EPROM. Scratchproof polyester keyboard with dome- shaped keys and preforming.
Measurement Limits: 05 V/V (010g/l). Accuracy: ±0,05 V/V (±0.1g/l).	 Indication of measurement and display, by means of a 128x64 points backlit graphic LCD with "LCD Saving" function, of the software and diagnostics menus, of the error
<u>Measurement scale:</u> "V/V (Gas/Vol)" or "g/l". <u>Product Temperature:</u> 0°C+45°C equivalent to 32°F113°F (0°C+90°C/32°F194°F as out of	messages and operating status indicator icons. - 3-level programming software with password
standard) with automatic compensation by means of Temperature sensor Pt1000 in AISI 316 stainless steel 3/8", Class "A" in	protection, check menu. - A choice of five languages (Italian, English German, Spanish, French) for the display or menus and messages.
accordance with IEC751.Line pressure:010bar (0145psi) at 20°C (68°F).	 Process temperature expressed in "°C" or in "°F" and pressure in "kg/cm²"or "psi".
GENERAL SPECIFICATIONS	Materials in contact with the product:
Power supplies Electric: AC 18V (1224V), 5060Hz, 20VA.	 Pt1000, mounting fitting's pipes and measurement cell in AISI 316 stainless steel. Pressure sensor in AISI 316 and
DC 24V (1836V), 20W. Connection box without Transformer (optional): Power supply according to UC05 specifications.	HASTELLOY C276. - ORING and Gaskets in Viton. - Extravolume diaphragm membrane in food-
Connection box with Transformer (optional): AC 115/230V ±10%, 5060Hz, 35VA. Interfaces	compatible EPDM. - TEFLON-coated magnetic rotor with PEEK ring.
Analog:020mA or 420mA on 470Ω.Digital:RS422/485 for connection to the "CM00" remote Control Unit, to PC with RS422 Interface and "Labtech" or similar data acquisition Software Package, to PC with RS485 Interface (Optomux Protocol).	Dimensions and weight: Equipment with mounting fitting: 458 (b) x 428 (h) x 205 (p), ~20kg Connection Box:170 (b) x 220 (h) x 106 (p), ~1kg