

# UC 05

ON LINE CARBONATION ANALYZER ON CARBONATE BEVERAGE PRODUCTION LINES

The microprocessor-based UC-05 digital carbonation analyzer is a self-contained analyzer, with multiple functions, which mounts directly on the process line. It continuously measures in-line dissolved CO<sub>2</sub> concentration, displays the carbonation value, transmits the value in digital and analog mode, and activates alarm relay outputs. Dissolved carbonation is measured by the Model UC-05 carbonation analyzer using the well know relationship between saturation pressure, temperature and carbonation, defined by Henry's Law. The UC-05's unique state of the art design includes many modern feature such as:

**High CO<sub>2</sub> extraction capability**

**High accuracy pressure and temperature sensors**

**Virtually maintenance free**

**High resolution graphic display**

The instrument's faceplate contains a backlitged graphic display and input keypad. From the keypad it is possible to completely personalize and configure the instrument's user language, mA output signal and alarm outputs.

The instrument also has an RS422/RS485 serial output for remote devices. UC-05 is provided with tri-clamps pipe ends for its connection on a process line.



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PROCESS ANALYZERS

## GENERAL FEATURES

### Technical Specifications

**Operating range:**

0-5 V/V (0-10 gr/lit)

**Accuracy:**

+/- 0.05 V/V (0,1 gr/lit)

**Automatic temperature compensation range:**

-5/90 °C

**Drift:**

None

**Calibration curves:**

Preconfigured and/or user Configurable

**Output Signals:**

0-20/ 4-20 mA (Configurable)  
RS422/RS485

**Power supply:**

AC 18V (12-24V) 50-60 Hz 0.6A  
DC 24 v (18-36V) 0.6A  
Upon request  
AC 115/230 ±10%  
With external power supply

**Alarms:**

1 Configurable alarm, 24V 1A

**Input:**

"Hold Measure" contact

**Construction characteristic:****Display:**

High resolution graphic display

**Keypad controls:**

Configurable function keys

**User language:**

Multilanguage

**Enclosure:**

Stainless steel  
IP64 (Nema 4X)

**Material in contact with measured fluid:**

AISI 316 stainless steel,  
sanitary rubber

**In line connection:**

1" tri-clamps ends

**Weight:**

8 Kg

**Fluid operative limits:****Temperature:**

-5 / 90° C

**Pressure:**

From -0.76 to 10 bar

**MASELLI MISURE s.p.a.**

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