



CO₂ Purity Monitoring System

The MAX-Bev CO₂ Purity Monitoring System is a fully integrated analysis system capable of simultaneous accurate measurement of CO₂% and more than 20 impurities down to ppb levels as specified by the International Society of Beverage Technologists (ISBT)*. The elegant design incorporates complete control of the input process gas streams from all points of the carbonation process (delivery tanker, pre- and post- filtration), along with zero gas and validation gas. Total software control is maintained via the large front panel touch screen or keyboard. This system is ideal whenever and wherever carbonation gases must be analyzed for impurities.

MAX-Bev can quickly analyze carbonation streams for all gaseous impurities using state-of-the-art FTIR and fluorescence technologies. Any impurities observed in the Bev-gas are quickly detected, speciated and quantified. Common communication protocols for data logging are used for easy incorporation into existing plant designs.

*Oxygen not detectable via MAX-Bev™

MAX-Bev™ Features

- Fully integrated impurity measurement system
 - Response times down to 6 sec
- FTIR gas analyzer with constant calibration
 - FTIR calibrations supplied with analyzer
 - Expandable to additional impurities
- Total sulfur analyzer
 - Permeation bench provided
- Industrial PC
- Touch screen software control
- PLC and MFC control of gas streams
 - Up to 4 automated sample channels
- Modbus and other automation interfaces available



Impurities Detected (ISBT)

- Acetaldehyde
- Aromatics (as Benzene)
- Methane
- Total Hydrocarbon (as Methane)
- Total Sulfur (as SO₂)
- Methanol
- Moisture
- Nitric Oxide/Nitrogen Dioxide
- Sulfur Dioxide
- Ammonia
- Carbon Monoxide
- Hydrogen Cyanide
- Additional impurities upon request

Technical Specifications

- FTIR dynamic range: 0 – 500 ppm
- Accuracy/Linearity/Drift: ± 1%
- CO₂ measurement: 100% ± 0.1%
- MDL for total impurities: 2 - 40 ppb
- MDL for total Sulfur: 1 ppb

Additional Product Specifications

- Ethernet or Serial Communication
- Clean Dry Air (CDA) source for TRS oven
- Nitrogen source for FTIR zero
- 200 - 240 VAC; 50/60 Hz
- 2,000 Watts maximum power



Dimensions

- 26" (W) x 74" (H) x 35" (D)
[66 cm x 188 cm x 89 cm]
- 600 lbs (272 kg)



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