

CO₂ Quality Control for Bottlers

MEETS THE REQUIREMENTS FOR CARBONATED BEVERAGES



CARBOSCAN 150

CARBOSCAN 150

Bottler Version

About UNISENSOR

GROUNDBREAKING TECHNICAL SOLUTIONS
MADE IN GERMANY

UNISENSOR GmbH is a manufacturer of innovative technologies for process analytics and the quality control of gases, liquids and solids. We provide cutting-edge products that set new standards in high speed and precise automated process inspection and quality control.

Our product portfolio includes internationally patented systems for the industrial gases, beverage bottling, brewing and recycling industries.

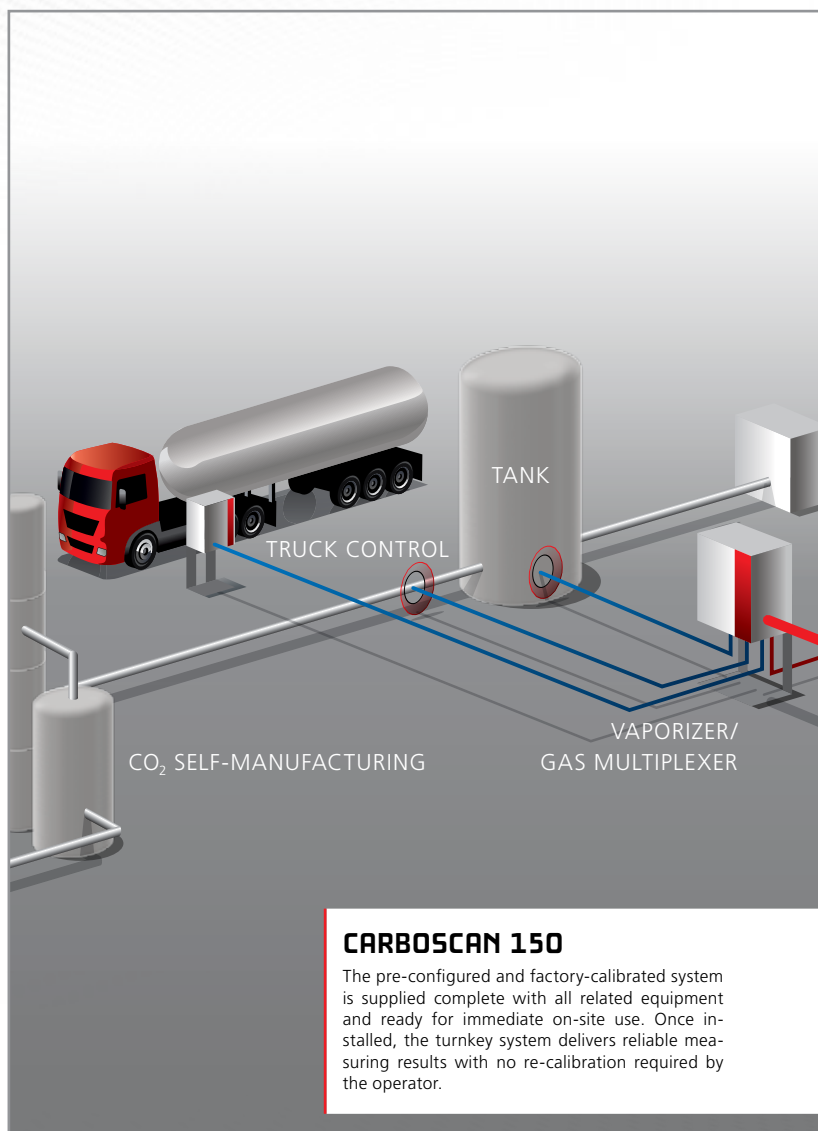
CARBOSCAN 150

ONE SENSOR SYSTEM FOR ALL RELEVANT CONTAMINANTS

- No calibration required
- No operation/calibration gases required
- Wide range of detectable substances
- Total Sulfur measurement
- Single SO₂ measurement
- Expandable component list by remote
- Fully automatic measurement sequences
- Full database with backup system
- Worldwide service concept
- Teleservice and continuous remote connection

Our Turnkey Solution

PRE-CONFIGURED AND FACTORY-CALIBRATED
COMPLETE WITH ALL RELATED EQUIPMENT



CARBOSCAN 150

The pre-configured and factory-calibrated system is supplied complete with all related equipment and ready for immediate on-site use. Once installed, the turnkey system delivers reliable measuring results with no re-calibration required by the operator.

Detectable Contaminants

	ISBT QUALITY LIMIT	DETECTION LIMIT
Total Sulfur (asS) by oxidizing sulfur compounds to SO ₂ (included)	0.1 ppm	30 ppb
Sulfur Dioxide (included)	1 ppm	30 ppb
Carbonyl Sulfide (optional)	0.1 ppm	30 ppb
Aromatic Hydrocarbon (included)	20 ppb	5 ppb
Acetaldehyde (included)	0.2 ppm	50 ppb
Ammonia (included)	2.5 ppm	1 ppm

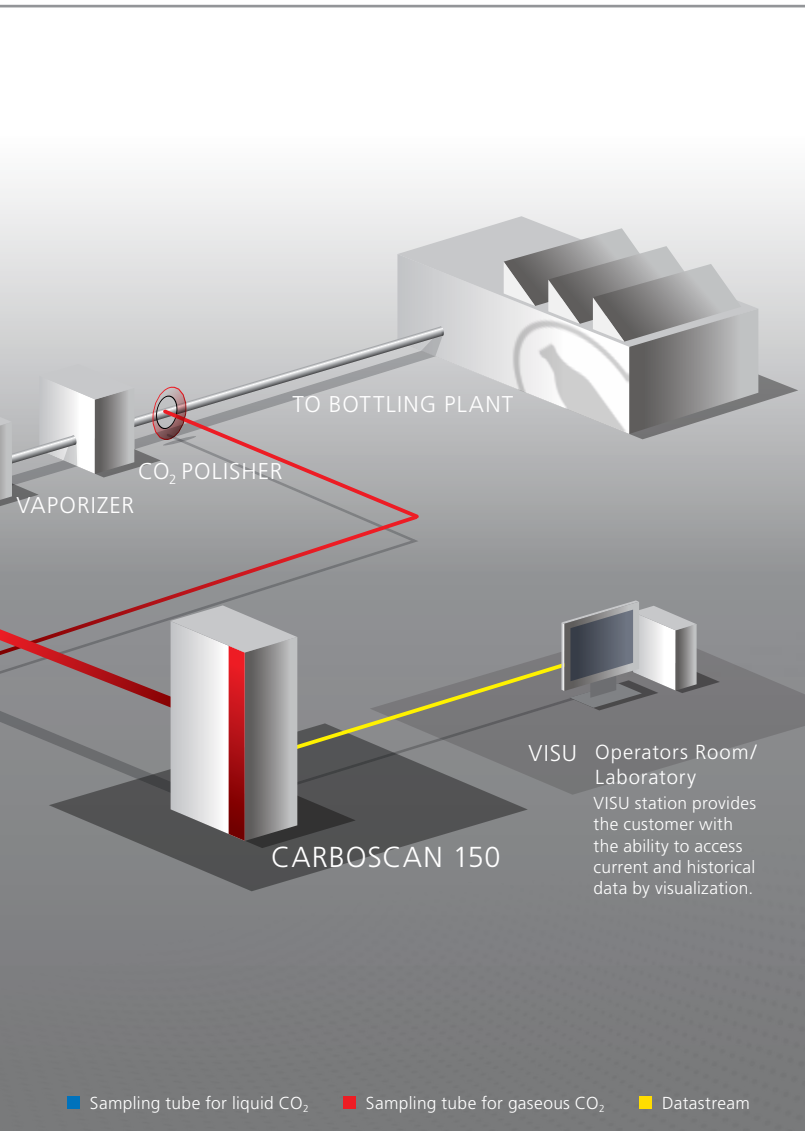
Total Hydrocarbons including 20 ppm max. TNMHC (included)	50 ppm	4 ppm
Methane (included)	50 ppm	1 ppm
Methanol (included)	10 ppm	1 ppm
Ethane (included)	20 ppm	1 ppm
Ethanol (included)	20 ppm	1 ppm
Propane (included)	20 ppm	1 ppm

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END-TO-END QUALITY ASSURANCE
WITH DETECTION LIMITS IN THE PPB RANGE

CARBOSCAN 150, with its precise and fully automatic online process monitoring of CO₂, safeguards continuous quality throughout the production process.

The system uses the method of optical absorption spectroscopy to identify contaminants: it can identify even the slightest traces of contaminants using the light attenuation that these cause in the CO₂.



Specifications

Dimensions (H×W×D):	73 × 24 × 43 inches (1850 × 600 × 1100 mm)
Weight:	780 lbs (350 kg)
Power supply:	110 V (230 V)
Mains frequency:	60 Hz (50 Hz)
Ambient temperature:	59° F to 104° F (15° C to 40° C)
Power consumption:	4.5 kW
Noise emission:	70 db (A)

Carbon Monoxide	(optional)	10 ppm	2 ppm
Moisture	(included)	20 ppm	5 ppm
Nitric Oxide	(included)	2.5 ppm	1 ppm
Nitrogen Dioxide	(included)	2.5 ppm	1 ppm
Fluorocarbon, HCN, Further single hydrocarbons	(optional)		

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