



INSPECTPRESSURE

Measurement of pressure and gas concentration.



Sparkling wines.
Proposed inspections:
O2, CO2 and pressure.



Calm wines.
Proposed inspections:
O2.



Beer.
Proposed inspections:
O2, CO2 and pressure.



Waters.
Proposed inspections: O2 (carbonated: CO2 and pressure)



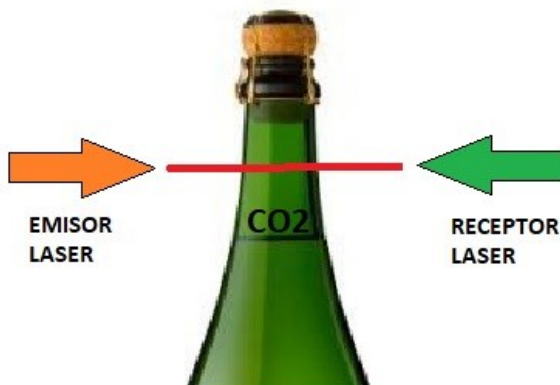
Soft drinks.
Proposed inspections:
O2, CO2 and pressure.



Juices.
Proposed inspections:
Gas Spect
O2 Gasmas



Dairy products.
Proposed inspections:
Gas Spect
O2 Gasmas



ORIENTING | INSPECTING | REJECTING
ANY KIND OF EMPTY OR FULL BOTTLES AND CONTAINERS

Non-destructive inspection system and no contact with containers and bottles.

Inspection for the measurement of pressure and gas concentration based on LASER TDLAS SPECTROSCOPY (Tunable Diode Laser Absorption Spectroscopy).

Features

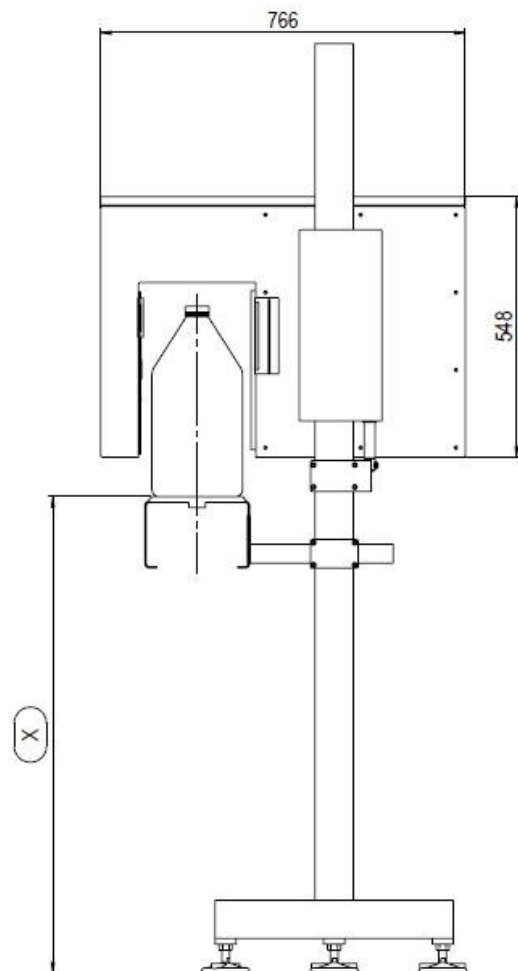
- The inspection is carried out on the neck or head of the bottle or container.
- The applications are quality control of carbonated water, sodas, beer, sparkling wine, cava and champagne, all with different concentrations of oxygen, carbon dioxide and bottle pressure.
- The operating principle is based on measurement of LASER light absorption when crossing the space in the head or the neck of the container (based on TDLAS technology). This can be done in static mode when the bottle is stopped or in dynamic mode when the bottles move along the conveyor belt.
- The measurements of the applications are optimized according to the customer's specifications, the type of bottle and the speed of the machine.

Technical specifications

- Gas: CO2: 0.1 to 100%
- Pressure: 0.5 to 8 bar
- IP classification sensors: IP65
- Accuracy: Typical 100 mB, +/- 2% CO2
- Laser: Class 1
- Required transparency: > 1% of the LASER light
- Bottle sizes: 100 ml to 3,000 ml
- Neck size: Typical 20 to 50 mm.
- Neck length: > 10 mm.
- Bottle material: PET, glass, (transparent, blue, amber, etc.)
- For all types of closure and packaging
- No modifications or intervention in the existing line

Advantages of our system

- **Inspection of 100% of production.**
- No changes in the existing line
- Increase in company productivity
- Increase in quality
- Reduction of rejections
- Claims reduction
- Without mechanical wear parts
- Without maintenance
- Precision in the inspection regardless of the level of filling
- Accuracy in the inspection regardless of type, shape, color, container, stopper, etc.
- Guarantee of the closure sealing
- Presence of vacuum and detection of micro-holes
- No contact with the product
- Adjustment of margins with max. and min. limits of independent pressure and concentration.



E2M Estudis Electro-Mecànics, S.L.

C/ Pau Vilà i Dinarés, 4-10
08192 Sant Quirze del Vallès
Barcelona - SPAIN
Telf. (+34) 93 720 85 40
Fax. (+34) 93 720 85 25
comercial@e2m.es
www.e2m.es

E2m offers customized solutions to meet specific requirements of each customer.

Specifications subject to modification without prior notice, according to technical advance and product development.