



ANTARES VISION
GROUP **BEVERAGE**

NON DESTRUCTIVE
LABORATORY
ANALYZERS
REFERENCE GUIDE





ANTARES VISION
GROUP **BEVERAGE**

The next-gen of digitalization
for products and supply chains

Our journey continues towards technological excellence,
guided by **one shared vision** and the mission to **accelerate technological innovation**
and digitalization by **connecting the physical and digital world** with the **integrated value chain**.

We aim to **protect and create value** for **brands, governments** and for all the **people**,
to **improve the quality of life**.

QUALITY INSPECTION

Quality control for products, packaging and printing

TRACK AND TRACE

Serialization and aggregation solutions

DIGITAL FACTORY

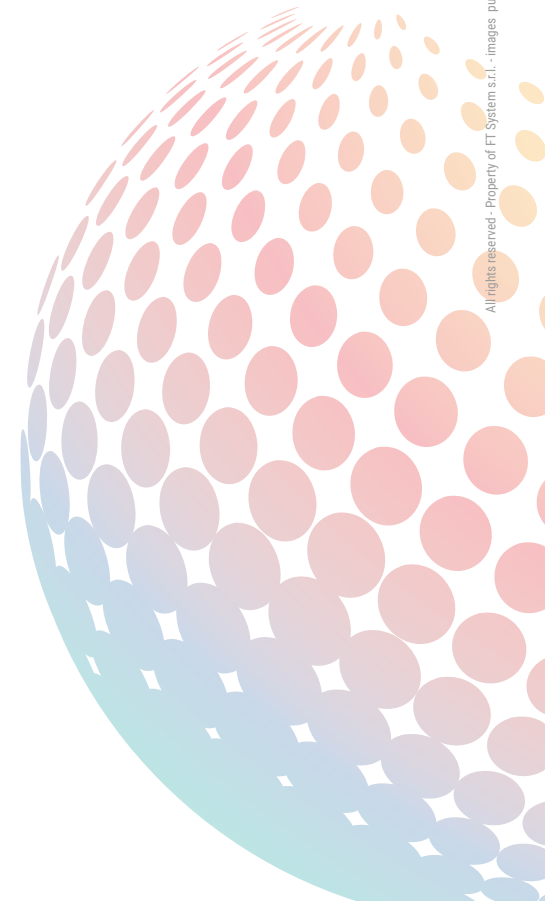
Performance and efficiency in manufacturing

SUPPLY CHAIN TRANSPARENCY

End-to-end supply chain digitalization and end user connectivity

SERVICE

360° support, 365/24 assistance





TECH **FT SYSTEM**
ANTARES VISION GROUP

Since 1998, FT System has developed technologies and competence in inspection aimed to guarantee the quality control of beverage products and packaging. Expertise and technologies that continue within Antares Vision Group

LASER SPECTROSCOPY DIVISION

WE ARE SPECIALISTS IN DESIGNING AND PROVIDING **SENSORS** AND **MEASUREMENT SYSTEMS** BASED ON **"TDLAS"** TECHNOLOGY REALIZED TO BE INTEGRATED IN **NON-DESTRUCTIVE INSPECTION** SOLUTIONS FOR THE BEVERAGE, FOOD AND PHARMACEUTICAL INDUSTRIES

CO2 CONTENT ANALYSIS AND PRESSURE MEASUREMENTS

EVO-01 CO2



MARKET



SPARKLING
WINE



C.S.D



CLASSIC
METHOD



BEER

MEASUREMENTS

- Total pressure
- CO2 Partial pressure
- CO2 Dissolved in the liquids
- Temperature

Results available at room temperature and at 20°C

CHARACTERISTICS

- Measuring Range 0.5 - 10 bar*
- Accuracy Down to ± 50 mbar
- Measuring Cycle ~ 5 sec

* Absolute bar

USEFUL FOR

- Fermentation process monitoring
- Pressure evolution in time
- Sealing after pasteurization
- Bottle permeability in time
- Closure sealing in time
- New closure test
- Quality control

TOTAL PRESSURE MEASUREMENT IN NITROGEN DOSED PRODUCTS

EVO-01 N2



MARKET



WATER



SOFT-
DRINKS



JUICE



FOOD

MEASUREMENTS

- Total pressure
- Temperature

Results available at room temperature and at 20°C

CHARACTERISTICS

- Measuring Range 0.5 - 2.5 bar*
- Accuracy Down to ± 50 mbar
- Measuring Cycle ~ 5 sec

* Absolute bar

USEFUL FOR

- Nitrogen doser monitoring
- Leak detection
- Pressure evolution in time
- Bottle permeability in time
- Closure sealing in time
- New closure test

VACUUM LEVEL MEASUREMENT IN BOTTLES OR JARS

EVO-01 V



LOW CO2 CONCENTRATION MEASUREMENT IN BOTTLES OR JARS

EVO-01 TRACE

TECH FT SYSTEM
ANTARES VISION GROUP



MARKET



BABY
FOOD



JUICE



FOOD



PHARMA

MEASUREMENTS

- Vacuum measurement
- Temperature

CHARACTERISTICS

- Measuring Range 0.5 - 2.5 bar*
- Accuracy Down to ± 50 mbar

- Measuring Cycle ~ 5 sec

* Absolute bar

USEFUL FOR

- Leak detection
- Sealing after pasteurization
- Closure sealing in time
- Foil sealing/permeability in time
- Filling+Capping Process monitoring
- New closure test

MARKET



FOOD



COSMETIC



MILK
BASED



PHARMA

MEASUREMENTS

- CO2 Low concentration
- Temperature

CHARACTERISTICS

- Measuring Range 0 - 30% of CO₂
- Accuracy Down to $\pm 0.05\%$ of CO₂

- Measuring Cycle ~ 15 sec

USEFUL FOR

- CO2 increase due to possible bacterial activity
- CO2 evolution in time
- Test on contaminants

O2 CONCENTRATION MEASUREMENT IN BOTTLES OR JARS

EVO-01 O2

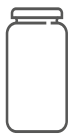


O2/CO2 CONCENTRATION MEASUREMENTS IN MAP FOOD TRAYS AND FLEXIBLE PACKS

EVO-P



MARKET



FOOD



SOFT-
DRINKS



STILL
WINE



PHARMA

MEASUREMENTS

- O2 Concentration

CHARACTERISTICS

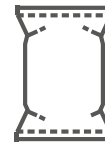
- Measuring Range 0 - 100% of O₂
- Accuracy Down to ± 0.2% of O₂

- Measuring Cycle ~ 20 sec

USEFUL FOR

- Quality control
- O2 variance in time
- Sealing after pasteurization
- Bottle permeability in time
- Closure sealing in time
- New closure test

MARKET



BAGS
MAP Packed



TRAYS
MAP Packed

MEASUREMENTS

- O2 Concentration
- CO2 Concentration

Upon request are available these configurations:
O2 only | CO2 only | O2+CO2

CHARACTERISTICS

- O2 Measurement
 - Range 0 - 100% of O₂
 - Accuracy ± 0.3% of O₂
- CO2 Measurement
 - Range 0 - 100% of CO₂
 - Accuracy ± 1% of CO₂
- Measuring Cycle ~ 30 sec

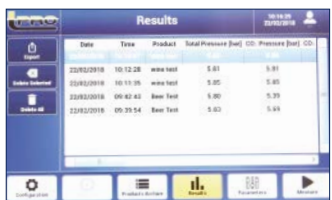
USEFUL FOR

- Packaging process monitoring
- MAP gas monitoring
- Leak detection
- Package permeability in time
- Gas development in time
- Gas evolution in time
- New sealing process test

ADVANTAGES



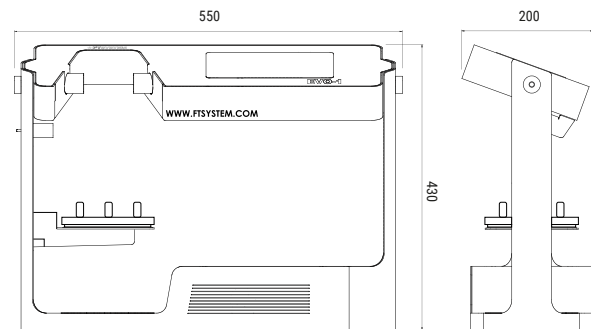
7" Touch screen
- High definition
- Colors



Few touches for
- All results
- Products settings
- Data exchange



Maximum user support
- Auto-alignment system
- Automatic change over
- Motorized vertical adjustment



Compact and easy to move

ALL KIND OF CONTAINERS AND CLOSURES

- Results not affected by material* and color of container and closure

RELIABLE AND REPEATABLE MEASUREMENTS

- Not affected by physiological variation in containers and closures
- Test repeatable in time on the same product

SAFE AND HYGIENIC

- Maximum safety [no package pierce]
- No products preparation for test
- No contamination risks while testing

COST REDUCTION

- No products disposal
- Products marketable after test
- No consumable or wear-off parts
- Extremely long lifecycle of laser sensors

NEW PACKAGING DEVELOPMENT SUPPORT

- Container permeability test
- Sealing test on new closures
- Pressure/vacuum changes in time
- Gas development/evolution in time

- Automatic changeover
- Customized formulas
- Specific supports for non-standard bottles
- Automatic measurement of product temperature
- Exportable results database
- Historical results database
- Remote assistance
- Dedicated training classes

* Minimum 5% of transparency is required

INTEGRABLE SENSORS AND GAS SENSING SOLUTIONS

OVERHEAD THE VALUE OF YOUR PRODUCTS, BREAKTHROUGH YOUR MARKET PRESENCE

PHARMA

O₂ Measurement [Low pressurized Vials]
O₂ Measurement [Low O₂ concentration in "mixture" atmosphere]
Relative HUMIDITY [Vials with lyophilic substances]
VACUUM measurement [Vials with liquids]
CO₂ Measurement [Low CO₂ concentration in vials with liquids or lyophiles]
LEAK detection

FOOD BOTTLED

PRESSURE measurement [Nitrogen dosed]
VACUUM measurement [Hot-filled or pasteurized]
CO₂ Measurement [Low CO₂ concentration - fermentation or microbacteriological activity]
LEAK detection

FOOD "MAP" PACKED

O₂ Measurement [In bags - MAP packaged]
CO₂ Measurement [In bags and trays - MAP packed]
LEAK detection [In bags and trays - MAP packed]

BEVERAGE

PRESSURE measurement [Carbonated - Nitrogen dosed]
VACUUM measurement [Hot-filled or pasteurized]
LEAK detection

KEGS Line

Micro-Leak detection [CO₂]

SOME APPLICATION EXAMPLES



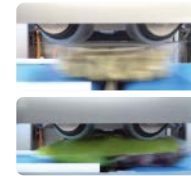
Integrated sensor - "pharma" line



Integrated sensor "Milk based" line



Integrated sensor "shredded cheese" line



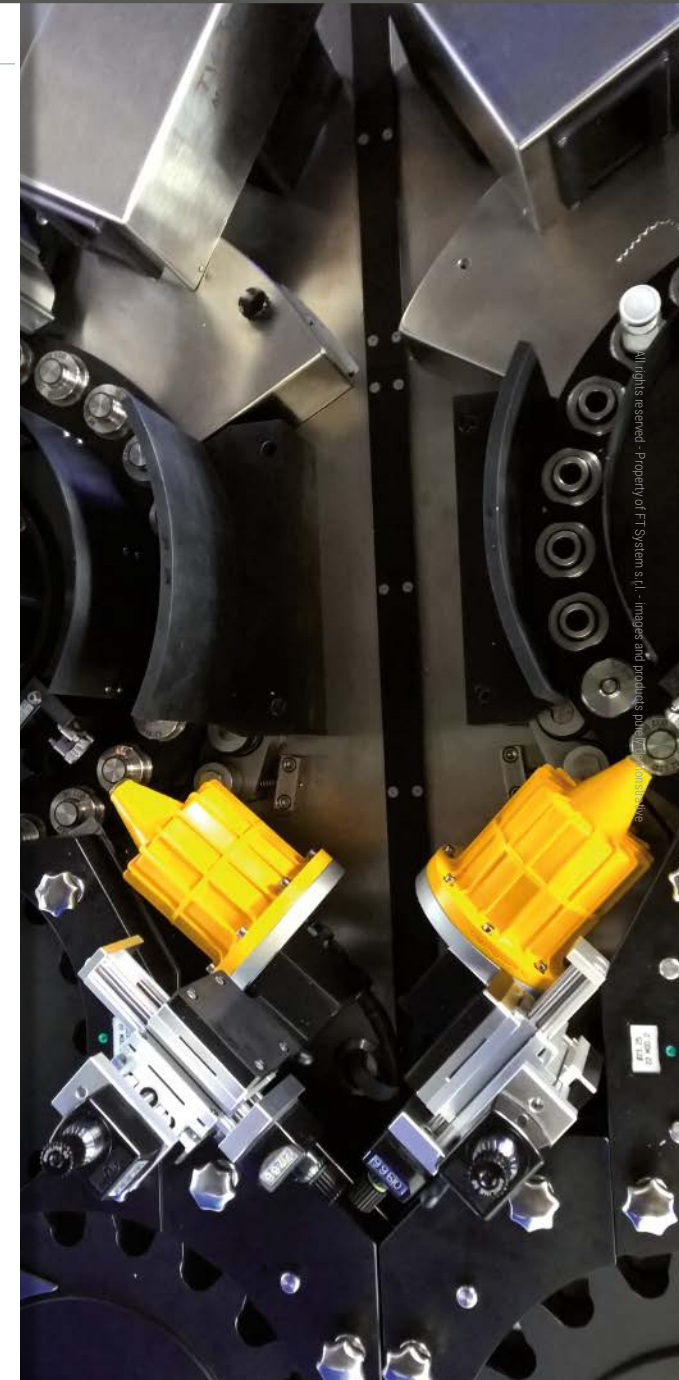
Integrated sensor "MAP packed food" line



Integrated sensor "beverage" line



Integrated sensor "kegs" line



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- CROATIA (1)
- FRANCE (3)
- GERMANY (1)
- INDIA (1)
- IRELAND (1)
- MEXICO (1)
- RUSSIA (1)
- SERBIA (1)
- SPAIN (1)
- SOUTH KOREA (1)
- UK (1)
- USA (7)
[Incl. CANADA]



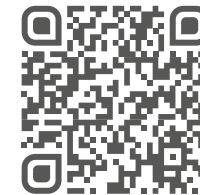
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**ANTARES VISION
GROUP**

Experience the power
of **TRUSTPARENCY**[®]

Our mission is to accelerate technology innovation and digitalization by connecting the physical and digital worlds with the integrated value chain. We empower our customers to protect product, profit, people and planet through a comprehensive technology ecosystem: inspection systems for quality control; track and trace solutions for anti-counterfeiting and supply chain transparency; and smart data management tools for maximized efficiency and digitalization of the supply chain, from raw materials to the final consumer.

www.antaresvionigroup.com



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