

### Solutions for Your Supreme

### **Soft Drinks**

**Soft Drink Analysis Overview** 



### **Market-Leading** Laboratory **Analysis**

Density measurement is crucial to ensuring the supreme quality of your soft drinks. Whether you're analyzing diet or regular soft drinks, our portfolio offers exactly what you need. Our instruments deliver market-leading analysis across the whole soft drink production process. They're always superior and position you one step ahead of the competition.















#### Revolutionary beverage analysis from the market leader

- → Measure seven quality control parameters simultaneously in just five minutes
- → Combine up to four instruments for comprehensive quality analysis, which saves you two hours of preparation and cleaning time per day
- → Closely monitor processes and product release
- → Use handheld devices for fast, reliable QC on-site and in the field



#### Maximum efficiency for QC

- → Reduce waste, streamline operations, and ensure consistent quality
- → Get results 6x faster than with traditional methods
- → Reduce diet reference analysis time by up to 75 %
- → Optimize blending and carbonation, and ensure confidence in your final product
- → Automate filling and cleaning of up to 24 samples in a row



#### **Decades of application experience**

- → Know you're working with a partner that has over 40 years of experience in the field
- → Draw on our application expertise wherever and whenever you need it
- → Rely on the same expertise that QC managers from around the world and across every industry have access to



#### Features that make market-leading density meters

- → Leverage usability features like 30+ guided workflows and automatic bubble detection to make your density measurements easier than ever before
- → Benefit from an automatic compensation of the thermal effects on the U-tube and keep these effects to a minimum over the entire lifetime of the instrument
- → Streamline your data management with AP Connect, our lab execution software



#### Expert service, guaranteed

- → Know you benefit from Anton Paar quality when it comes to durability and service
- → Get a 3-year warranty with each product
- → Access our global service network whenever you need it
- → Enjoy support in your local language
- → Know you have access to spare parts for at least 10 years after purchase

WATCH VIDEO



WATCH VIDEO



WATCH VIDEO



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Density is the acknowledged standard parameter for evaluating a soft drink's quality. It's the basis for highly accurate Brix and Diet measurement, which you can obtain with our market-leading technology.

By combining sound velocity and density, you can determine the current state of the sugar inversion process, making manual inversion a thing of the past.

#### Enjoy market-leading accuracy

- → Measure with 3- to 6-digit accuracy in density, depending on the instrument
- → Know your measurements are unaffected by the surrounding environment (e.g., altitude)
- → Get exceptional reproducibility every time

#### Stay compliant with industry

- → Comply with all the standards you need to fulfill
- → Easily pass audits and lab inspections

#### Get a live view of the measuring cell with U-View™

- → Check the sample filling process via a high-quality image of the glass cell on the high-resolution screen (1280 x 800 px)
- → Verify correct sample filling and measurements with the stored images
- → Print results with or without U-View<sup>TM</sup> pictures or transfer this set of data to your LIMS systems

#### Perform your tasks quickly and efficiently

- → Open your favorite menu dialogs from the 10.4" screen using the quick access area
- → Assign different user levels to prevent accidental changes
- → Get system or operation alerts and see the current status of an automatic sample changer or measuring module

#### Ensure correct sample filling with FillingCheck™

- → Enjoy automatic monitoring of filling quality
- → Get real-time error detection and automatic documentation for later verification
- → Know you have the market's most reliable bubble detection with our patented Pulsed Excitation Method

### Our Product Portfolio

### for Soft Drink Analysis



#### DMA 35: Our portable density meter

- → Conduct quick, reliable quality control during syrup production with just 2 mL of sample
- → One device replacing all glass hydrometers and pycnometers in the workplace
- → Leverage the widest viscosity range on the market
- → Store and export 1,000+ results to a printer or PC
- → Enjoy fast sample processing with an RFID interface and Bluetooth capability

#### DMA 501, DMA 1001: Our advanced 3- and 4-digit density meters

- → Conduct quality checks at production lines and storage facilities with this stand-alone solution
- → Benefit from an unmatched price-performance ratio
- → Splash-proof, self-diagnosing, no ventilation-related corrosion
- → Automatic conversion of density into concentration (60+ conversion tables)





#### DMA 4101, DMA 4501, DMA 5001: The fastest, most accurate modular density meters

- $\,\to\,$  Track and eliminate variations in your production and achieve consistency in every batch
- → Get 4-digit accurate results in 20 seconds (or up to 6-digit accuracy for even higher precision)
- → Rely on technology that's been in the field for over 40 years
- → Enjoy higher throughput with automated filling, measuring, and cleaning
- → Connect to various Anton Paar instruments for multiparameter measurements anytime



#### DMA 4501 Diet: Diet measurement made easy

- → Measure % Diet, °Brix, and density for regular and diet drinks, energy drinks, and carbonated water
- ightarrow Reduce diet reference analysis time by 75 %
- → Combine up to four instruments to determine all quality parameters in one go
- → Easily manage QC with guided diet adjustments

#### Soft Drink Analyzer M: Density and sound velocity meter, the best of both worlds

- → Obtain the exact state of sugar inversion and set the dilution ratio
- → Measure °Brix, °Brix fresh, °Brix inverted, and the degree of inversion in one go
- → No manual, forced inversion required
- → Choose from several Anton Paar instruments for multiparameter measurements
- → Determine the product quality of your soft drink in less than five minutes



8

# Portable Quality Control: Anywhere, Anytime

Buy online

Step Up to Lab Analysis

DMA 501, DMA 1001: Compact density meters

Buy online

DMA 35: A portable density meter for the field

#### Density meters that are built to last

The DMA 35 is durable. But don't just take our word for it.

- → IP54 protection class: harsh industrial and field applications are no problem
- → Added rubber protection around measuring cell
- → Replace all glass hydrometers in your workplace and get the expected accuracy
- → Replaceable measuring cell for DIY maintenance

#### On-site QC just got easier

Benefit from fast, reliable QC during syrup production on-site and in the field.

- → Measurements with just 2 mL of sample, no need to transfer it to a lab
- → Gesture control: one-handed measurements
- → Glove-friendly
- → Quick result export to printer or PC for documentation and analysis
- → RFID interface and Bluetooth streamline your operations and save time in the field

#### Let's revolutionize how you use density

Our compact digital density meters will change the way you do QC. Use intuitive features that help you use the instruments right after delivery.

- → Predefined output quantities for soft drink analysis
- → Guided user workflows
- → Condition monitoring
- → Customizable screen layouts

#### We have your back on traceability

When you work with us, you know your results are traceable.

- → FillingCheck<sup>TM</sup> and U-View<sup>TM</sup> monitor the quality of filling, deliver alerts, and store a complete image for later verification
- → Data export after every measurement via network file share or USB
- → Compatible with AP Connect, our lab execution software

|                                | DMA 35      |
|--------------------------------|-------------|
| Concentration sugar (accuracy) | 0.25 °Brix  |
| Density (accuracy)             | 0.001 g/cm³ |

|                                | DMA 501                 | DMA 1001                 |
|--------------------------------|-------------------------|--------------------------|
| Concentration sugar (accuracy) | 0.25 °Brix              | 0.025 °Brix              |
| Density (accuracy)             | 0.001 g/cm <sup>3</sup> | 0.0001 g/cm <sup>3</sup> |

#### FIND OUT MORE



www.anton-paar.com/ apb-softdrinks-dma35



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www.anton-paar.com/ apb-softdrinks-cdma

### Next-Level Speed, Next-Level Accuracy

DMA 4101, DMA 4501, DMA 5001: Our fastest, most intelligent modular density meters

#### The DMA: Always superior

- → 4-digit accuracy in 20 seconds
- → Patented Pulsed Excitation Method ensures marketleading precision, repeatability, and reproducibility
- → Storage for 10,000 measurements
- → Ultra-fast measurement mode boosts productivity
- → Instant pass/fail QC decisions by defining limits for different samples
- → Compliance with a range of industry standards
- → Up to 6-digit accuracy

#### The power of multiparameter analysis

- → Connect your instrument to various Anton Paar measuring modules for a comprehensive measuring system
- → Get all relevant QC parameters from one sample
- → Measure up to seven parameters at once
- → Increase your efficiency, productivity, and safety with automated sample changers

#### Features that simplify your workflow

- → FillingCheck<sup>™</sup> detects microbubbles within seconds
- → U-View<sup>TM</sup> shows a zoomable image of the measuring cell
- → Automatic compensation of temperature effects thanks to Thermo Balance<sup>TM</sup>
- → Guided user workflows
- → Compatible with AP Connect, our lab execution software

|                                | DMA 4101                 | DMA 4501                  | DMA 5001                   |
|--------------------------------|--------------------------|---------------------------|----------------------------|
| Concentration sugar (accuracy) | 0.025 °Brix              | 0.015 °Brix               | <0.01 °Brix                |
| Density (accuracy)             | 0.0001 g/cm <sup>3</sup> | 0.00005 g/cm <sup>3</sup> | 0.000005 g/cm <sup>3</sup> |

### Diet Measurement, Made Easy

DMA 4501 Diet: Straightforward diet measurement with an all-in-one solution

#### Streamlined QC, better product quality

- → Analyze your soft drink in just three to six minutes (depending on system configuration), over 6x faster than using traditional methods
- → Measure % Diet and °Brix
- → Analyze your complete soft drink portfolio: regular and mid-calorie to diet drinks, energy drinks, and carbonated water

#### Supercharged soft drink QC

- → No operator influence with automatic pressurized filling from glass bottles, PET bottles, and cans
- → Degassing and filtration aren't needed, saving you up to seven minutes per sample
- → Experience hassle-free testing with automatic CO<sub>2</sub> correction and a user-friendly software-guided adjustment process, making quality control of diet products accessible to everyone

#### Intuitive to use, fully customizable

- → Built-in wizards guide operators through measurement and adjustment
- → Wide range of preconfigured output quantities
- → Compatible with AP Connect, our lab execution software
- → Automated adjustment of inline sensors via Davis 5 software – no need for manual operator interaction

#### DMA 4501 Diet

| % Diet (repeatability s.d)     | 0.5 % Diet    |
|--------------------------------|---------------|
| Concentration sugar (accuracy) | 0.01 °Brix    |
| Density (accuracy)             | 0.00001 g/cm³ |



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www.anton-paar.com/ apb-softdrinks-dma4501-diet

www.anton-paar.com/ apb-softdrinks-dma

FIND OUT MORE

### **Syrup Inversion Monitoring**

Density and sound velocity meter. The best of both worlds.

For products that use sucrose as a sweetener, Soft Drink Analyzer M determines the sugar inversion process digitally in just five minutes – no need for forced inversion. It uses a unique combination of density and sound velocity technology in a single device and is perfect for measuring sugar content in soft drinks, syrups, and HFCS.

Combine Soft Drink Analyzer M with a sample changer (optionally: with a % Diet measuring module) for measuring syrups and degassed samples, or use it in a multiparameter system for QC out of the final package.

#### One instrument handles sugar solutions in any state

- → Get highly accurate results due to automated detection and compensation of a sample's viscosity
- → Analyze all samples with a single instrument from syrup to finished product

#### Accurate, repeatable results

- → Market-leading repeatability: 0.000001 g/cm³ (density),
   0.1 m/s (sound velocity)
- → Get the best results on the market combined with our intelligent instrument features like U-View<sup>TM</sup>
- → Detect even the smallest deviations in your production with our patented Pulsed Excitation Method
- → Optimize your production and receive your perfect product time and time again

#### Confidence in every measurement

- → FillingCheck™ generates and records filling warnings for both the density and the sound velocity cells
- → ThermoBalance<sup>TM</sup> temperature management eliminates drifts caused by temperature stress (requires only one adjustment at one temperature)

#### Softdrink Analyzer M

| Concentration sugar (accuracy)      | <0.01 °Brix    |  |
|-------------------------------------|----------------|--|
| Brix fresh (repeatability s.d.)     | 0.02 °Brix     |  |
| Brix inverted (repeatability s.d.)  | 0.02 °Brix     |  |
| Density (accuracy)                  | 0.000007 g/cm³ |  |
| Sound velocity (repeatability s.d.) | 0.1 m/s        |  |



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www.anton-paar.com/ apb-softdrinks-sda-m

### The Dream **Experience**

You have a dream: of an intelligent instrument that shows you the measurement way, and if you take a wrong turn, guides you straight back to the right path. A superior instrument that tells you your measurement has bubbles in it, shows you via camera image, and asks you to repeat it. An instrument that's as intuitive as a smart phone.

#### Usability design

The software that powers our compact and benchtop density meters, others can only dream of. It's the reason measurements are so quick and intuitive. Together with the revolutionary operating systems, it guarantees maximum usability and a smartphone-like experience with industry-specific profiles, 30+ guided user workflows, and 200+ available conversion tables.

#### **Smart features**

An instrument this smart thinks for you: efficient sample throughput, industry profile customization, fast sample diagnostics with the new, automatic algorithm-driven FillingCheck™, and reliable single measurements. The automated setup for the industry-specific user interface delivers an out-of-thebox, out-of-this-world measuring experience.

#### Dream data: AP Connect lab execution software

You have a dream: of a liberating paperless lab that eliminates transcription errors and guarantees data quality. You have a dream: of a lab where the data you need to pass audits is available at a snap, right at your fingertips. Just plug the instrument in to our lab execution software AP Connect for a lab without a single piece of paper. AP Connect links your instruments, communicates measurement information, and ensures compliance. Store 10,000 measurements in a single digital space, with userdefined output reports. The software is available in eight different languages.



### Versatile, for Different Applications

#### 1 Syrup and sweetener monitoring in the syrup room

As sugar undergoes inversion during soft drink production, you need to analyze density changes. Combining density and sound velocity measurements helps you determine the extent of sugar inversion and quantify the °Brix inverted (after full inversion) in the final soft drink.

#### 2 Syrup monitoring during soft drink production

Density and sound velocity measurements help to track sugar inversion, ensuring precise syrup dosing and maintaining product quality.

#### 3 Final syrup blending

The final syrup blending stage in soft drink production, when water, sugar, acids, color, and preservatives are combined to create the syrup, requires thorough monitoring to get the desired sweetness level. Controlling dissolved oxygen levels ensures product quality, while proper carbonation enhances taste sensations. Density measurements indicate dissolved solids concentration, while sound velocity measurements provide insights into sugar inversion and product composition.

#### 4 Blending and carbonation

Precise dosing of  $\mathrm{CO}_2$  is essential to achieve desired fizziness without compromising package integrity or incurring unnecessary costs. Monitoring key parameters such as sugar concentration, the current state of the sugar inversion process,  $\mathrm{CO}_2$ ,  $\mathrm{O}_2$ , and pH enables immediate insights into product quality, consistency, and shelf-life stability. Comprehensive QC at this stage guarantees optimal taste sensations and production efficiency.

#### 5 Final QC

Multiparameter measuring systems provide traceable and reliable tracking of quality parameters, ensuring consistent composition across production plants. Density, sound velocity, refractive index, °Brix, turbidity,  $CO_2$ , pH, and  $O_2$  measurements ensure high-quality products, maintaining taste and quality throughout the beverage's shelf life.





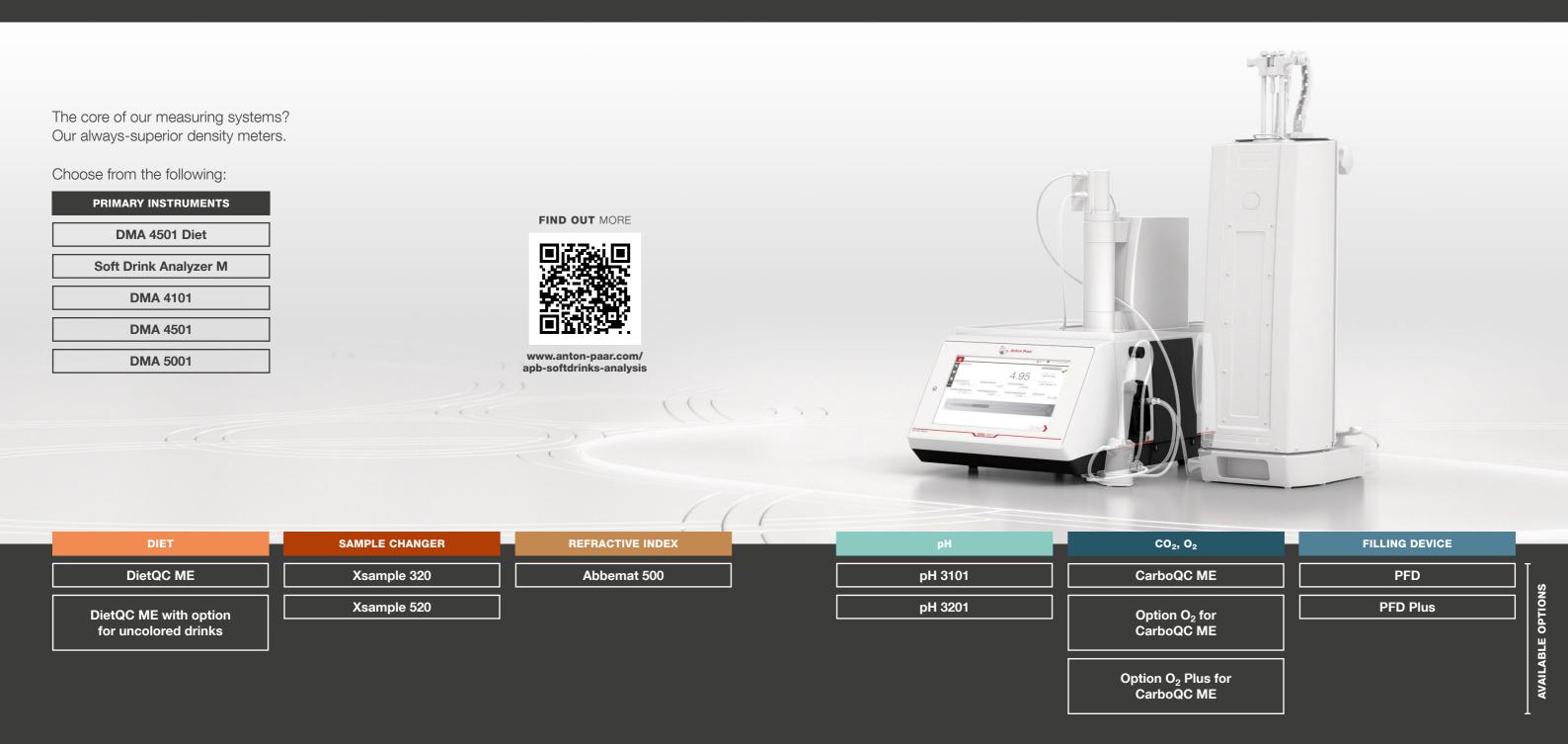






### Create Your Customized

### **Measuring System**



20

### **Measuring System**

### Modular Extensions











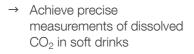






#### CO<sub>2</sub>, O<sub>2</sub>





→ No influence by other dissolved gases

Get a repeatability of 0.005 vol. Rely on automatic filling error detection for the density and CO<sub>2</sub> measuring cell for error-free operation. Add the (optional) high-resolution optochemical oxygen sensor for the simultaneous determination of the O<sub>2</sub> concentration in your beverage.



- → Simultaneous pH measurement optimized for beverage analysis
- → Automatic pH value correction for impact of dissolved CO<sub>2</sub>

Determine pH alongside other quality parameters. With the pH 3101 and pH 3201 measuring modules, you can select between pressurized and non-pressurized analysis solutions. Measure either directly from the package or from degassed samples.

#### **SAMPLE CHANGER**



- → Eliminate handling errors and save time with automation
- → Reduce costs per measurement

Benefit from a range of automation options. Suitable for syrup, intermediate products, finished products, and low and high sample throughputs. We have an automated solution to fit your business.



→ Receive your °Brix values based on refractive index simultaneously

REFRACTIVE INDEX

→ Comply with requirements related to method of analysis

Derive your °Brix values according to the required method. Depending on regulations, it's either required to report your °Brix based on density or on RI. Be prepared for both cases with simultaneous analysis.

#### FILLING DEVICE



- → Filling from glass bottles, PET bottles, and cans
- → No loss of CO<sub>2</sub> and O<sub>2</sub> due to pressurized filling

The PFD Filling Device transfers your sample directly from a closed container - either a bottle or a can - into the measuring chamber of a measuring instrument. The PFD and PFD Plus are the ideal filling devices for CO<sub>2</sub>/O<sub>2</sub> meters and pressurized measuring systems.

reduce the amount of reference analyses required.

→ Ensure in-spec production

of your diet soft drinks

Measure the concentration of

diet soft drinks with DietQC ME.

Set a reference at the beginning

of a batch, keep QC going, and

→ Free up lab capacity, reduce

diet analysis time by 75 %

**(1**)

### Recommended **Configurations**

Design your soft drink measuring system, one component at a time

For syrup or non-carbonated beverages with an automatic sample changer

DMA 4501 Diet

pH 3101

Xsample 520

→ Measure up to four parameters in one go in three to five minutes, 6x faster than with conventional

- → Analyze your entire portfolio of soft drinks and ready-to-drink beverages
- → Optimize your measurement processes with automation and fill up to 24 samples in a row
- → Eliminate operator influence, achieve the most precise % Diet results



For relevant parameters from the finished package

#### DMA 4501 Diet

CarboQC ME and Option O<sub>2</sub> (Plus)

pH 3201

PFD (Plus)

- → Measure up to six parameters in one go in three to
- → Analyze regular and diet drinks, energy drinks, and carbonated water
- → Reduce your diet reference analysis time by 75 %



For diet drinks and sugar inversion from the finished package

Soft Drink Analyzer M

**DietQC ME** 

CarboQC ME and Option O<sub>2</sub> (Plus)

pH 3201

PFD (Plus)

- → Measure up to seven parameters in one go in three to five minutes
- → Eliminate the need for manual sugar inversion
- → Analyze regular and diet soft drinks, including sugar
- → Combine with modules for dissolved oxygen, pH, or turbidity to complete your system for final beverage





apb-softdrinks-modulyzer



Recommended configuration



 $oldsymbol{2}$ 

**3** 

**Parameters** 

°Brix | % Diet | CO<sub>2</sub> | O<sub>2</sub> | pH °Brix | pH

°Brix | % Diet | °Brix fresh °Brix inverted | Degree of inversion | CO<sub>2</sub> | O<sub>2</sub> | pH

| MEASURING RANGE                      |  |  |   |
|--------------------------------------|--|--|---|
| Density                              | 0 g/cm³ to 3 g/cm³   |  |   |
| Sound velocity                       | -  | -  | 1,000 m/s to 2,000 m/s                  |
| Temperature                          | 20 °C  |  |   |
| Pressure                             | -  | Up to 10 bar (for 0 °C to 50 °C) Up to 5 bar (above 50 °C)   | Up to 8 bar (116 psi) absolute pressure |
| Concentration sugar actual           | 0 °Brix to 80 °Brix  |  |   |
| Concentration sugar fresh / inverted | -  | -  | 0 °Brix to 80 °Brix                     |
| Degree of inversion                  | -  | -  | 0 % to 100 %                            |
| Diet concentration                   | 0 % Diet to 200 % Diet; or 0 mL NaOH to 200 mL NaOH; or 0 g/L TA to 200 g/L TA; or 10 ppm Alkalinity to 10,000 ppm Alkalinity; or 0 mg/mL $\rm H_3PO_4$ to 600 mg/100 mL $\rm H_3PO_4$ |  |   |
| CO <sub>2</sub> concentration        | -  | 0 vol. to 6 vol. (0 g/L to 12 g/L) at 30 °C (86 °F) 0 vol. to 10 vol. (0 g/L to 20 g/L) <15 °C (59 °F) |   |
| O <sub>2</sub> concentration         | -  | 0 ppm to 4 ppm   |   |
| pH value                             | pH 0 to pH 14  |  |   |
| REPEATABILITY S.D.                   |  |  |   |
| Density                              | 0.000005 g/cm <sup>3</sup>   | 0.000005 g/cm <sup>3</sup>   | 0.000001 g/cm <sup>3</sup>              |
| Sound velocity                       | -  | -  | 0.1 m/s                                 |
| Temperature                          | 0.01 °C (0.02 °F)  | 0.01 °C (0.02 °F)  | 0.001 °C (0.002 °F)                     |
| Concentration sugar actual           | 0.01 °Brix   | 0.01 °Brix   | 0.01 °Brix                              |
| Concentration sugar fresh / inverted | -  | -  | 0.02 °Brix                              |
| Degree of inversion                  | -  | -  | 1 %                                     |
| Diet concentration                   | 0.5 % Diet   |  |   |
| CO <sub>2</sub> concentration        | -  | 0.005 vol. (0.01 g/L)  |   |
| O <sub>2</sub> concentration         | -  | 2 ppb (in the range <200 ppb)  |   |
| pH value                             | 0.02 (in the range pH 3 to pH 7)   |  |   |

| Recommended configuration | 1        | 2        | (3)          |
|---------------------------|----------|----------|--------------|
|                           | <b>↓</b> | <b>↓</b> | $\downarrow$ |

| GENERAL INFORMATION                      |  |        |  |
|--|--|--------|--|
| Power features                           | U-View™, FillingCheck™, ThermoBalance™, full-range viscosity correction, ultra-fast measuring mode             |        | Bright 10.4" TFT PCAP touchscreen (640 px x 480 px) with customizable display layout |
| Minimum amount of sample per measurement | 40 mL  | 150 mL |  |
| Typical sample throughput                | 10 to 20 samples per hour, depending on system configuration   |        |  |
| Internal storage                         | More than 10,000 measuring values with camera images   |        | 1,000 measuring values (optional ring memory)  |
| Communication interfaces                 | 5 x USB, Ethernet, CAN, RS232  |        | 4 x USB, RS-232, CAN, VGA,<br>Ethernet   |
| Environmental conditions                 | (EN 61010) Indoor use only   |        |  |
| Ambient temperature                      | 15 °C to 35 °C (59 °F to 95 °F)  |        |  |
| Air humidity                             | Non-condensing; 20 °C, <90 % relative humidity; 25 °C, <60 % relative humidity; 30 °C, <45 % relative humidity |        |  |

PEM (017985525), U-View (006834791), FillingCheck (006834725), Thermobalance (006835094)

Reliable. Compliant. Qualified.

Trademarks

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www.anton-paar.com/ service

Our well-trained and certified technicians are ready to keep your instrument running smoothly.



Maximum uptime



Warranty program



Short response times



A global service network

26

### **Complete Your Soft Drink Analysis**

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apb-softdrinks-process

Anton Paar is the world's first full-range supplier for soft drink analysis. With 25 laboratory and process instruments, you can trace 15+ parameters from any location in the plant. Streamlining your soft drink's quality has never been so easy. Connected via the Davis 5 software, process sensors are calibrated and adjusted at the push of a button, taking lab measurements as a

Laboratory measurement (incl. portable instruments)

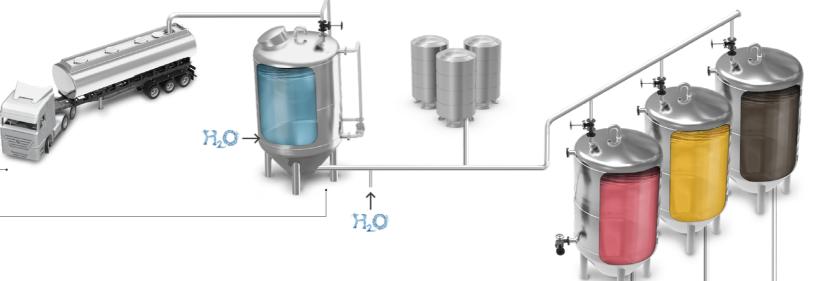
Process measurement

#### SYRUP MONITORING

#### **Raw Material Monitoring**

Density (°Brix), refractive index, optical rotation (°Z), purity, color classification, elemental impurities





#### SYRUP MONITORING AND INVERSION

#### **Raw Material Monitoring**

Density (°Brix), density and sound velocity (sugar inversion), refractive index



#### SYRUP MONITORING AND INVERSION

#### Sugar/Sweetener Dissolving Monitoring | Syrup Room

Density (°Brix), density and sound velocity (sugar inversion), refractive index





#### **BLENDING AND CARBONATING**

#### **Brix Monitoring | Blending**

Density (°Brix), density and sound velocity (sugar inversion), refractive index, pH





#### **BLENDING AND CARBONATING**

#### **Soft Drink Monitoring | Blending Carbonation**

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Density (°Brix), density and sound velocity (sugar inversion), dissolved CO<sub>2</sub>, dissolved O<sub>2</sub>



#### FINAL QUALITY CONTROL

#### Soft Drink Monitoring | Pre-Filler and Final Package

Density (°Brix), density and sound velocity (sugar inversion), refractive index, diet concentration, pH, dissolved CO<sub>2</sub>, dissolved O<sub>2</sub>, TPO



## **Grow Your Business**

Our soft drink analysis solutions are designed to grow with your needs. Whether you're integrating data management, upscaling your analytical solutions, or implementing inline analysis in your production, we've got you covered.

#### Measure inline

The inline sensor Cobrix provides continuous measurements of °Brix, % Diet, and CO<sub>2</sub> during soft drink production. Connected via the Davis 5 software, it's automatically calibrated and adjusted, taking lab measurements as a reference.

#### Go paperless

Centralize your lab data and store all your measurements in a single digital space. With our lab execution software, AP Connect, your data is accessible from any network computer, whenever you need. Streamlining your data flow frees up time for analysis and ensures full traceability.

#### Maximze efficiency

The Flex-Blend series is a modular, inline blending, carbonating, and dosing solution that consists of autonomous, skid-mounted process modules. Based on your requirements, these modules can be integrated into your production line – no matter what kind. That's not to mention its modular structure, which gives it a compact design and small footprint.



