



**Anton Paar**

::: Unique Density & Concentration Meters



## PBA-SD Generation M

Packaged Beverage Analyzer for Regular and Diet Soft Drinks



## One measuring system for regular as well as diet soft drinks

PBA-SD Generation M is a combined measuring system that consists of a DMA 5000 M density meter, a DietQC™ ME colorimeter module, a CarboQC ME carbonation measuring module and a PFD filling device. PBA-SD Generation M not only measures the °Brix value in regular soft drinks, but also the Diet concentration in %, mL NaOH or g/L Total Acid in all types of diet soft drinks. The influence of the dissolved CO<sub>2</sub> on the °Brix- and Diet readings is corrected automatically.

### The whole is more than the sum of its parts

- ▶ Highly precise measurement of °Brix or Diet concentration
- ▶ Results after 3 to 5 minutes
- ▶ Sample filling directly from bottles or cans
- ▶ Simultaneous CO<sub>2</sub> determination, no degassing
- ▶ Modular setup with optional measurement of sugar inversion, dissolved O<sub>2</sub> or pH
- ▶ Convenient and safe handling
- ▶ Data export as Excel, PDF or text files using USB
- ▶ Connection to a LIMS or network printer via Ethernet
- ▶ Phosphate or Total Acid check in colored sugared drinks

### Technical Data

#### Measuring range

Regular soft drinks	0 °Brix to 15 °Brix
Diet soft drinks	0 % to 200 %
CO <sub>2</sub>	0 g/L to 12 g/L (0 vol. to 6 vol.)

#### Repeatability

Regular soft drinks	0.01 °Brix
Diet soft drinks (colored samples)	0.2 %*
Diet soft drinks (colorless or turbid samples)	0.4 %*
CO <sub>2</sub>	0.01 g/L (0.005 vol.)

**Measuring units** (diet drinks) mL NaOH; g/L TA; %

**Sample temperature** 4 °C to 25 °C

#### Measuring time

Regular soft drinks	3 min. to 5 min.
Diet soft drinks (colored samples)	3 min.
Diet soft drinks (colorless or turbid samples)	5 min.

**Sample amount** 150 mL

**Pressurized air supply** 6.5 bar rel. (94 psi rel.)

**Interfaces** 4 x USB, Ethernet, VGA, CAN, 2 x S-Bus, RS-232

*\*) for typical diet beverage compositions.*

*Developed in cooperation with Labor für Messtechnik Dr. H. Stabinger GmbH, Graz*

**Anton Paar®** GmbH  
 A-8054 Graz, Anton-Paar-Str. 20  
 Tel.: +43 (0)316 257-0, E-mail: info@anton-paar.com  
 Fax: +43 (0)316 257-257, Web: www.anton-paar.com

#### Instruments for:

Density & concentration measurement	High-precision temperature measurement
Rheometry	Refractometry
Viscometry	Polarimetry
Sample preparation	Petroleum testing
Microwave synthesis	X-ray structure analysis
Colloid science	

Specifications subject to change without notice.

Your distributor: