



Modulyzer Liqueurs

Multiparameter analyzing system for measuring the alcohol and extract content of any type of liqueur

Modulyzer Liqueurs is a system that analyzes alcohol and extract content of all types of liqueurs at the same time. The basic modular setup consists of a density meter and a refractometer. There are also optional modules for turbidity and pH measurement as well as solutions for automation, which let users simultaneously measure up to four parameters in one go. Modulyzer Liqueurs even monitors slight product changes, so consistent production is guaranteed. No matter how creamy or turbid your products are, Modulyzer Liqueurs is ready to measure them.

Highlights

- Derive your blending ratio based on highly accurate alcohol and extract measurements
- Reduce reference analysis (distillation) efforts by more than 90 %
- Automate your sample processing and eliminate human errors with a sample changer and optional identification via barcode
- Supervise sample filling and measurement processes with the integrated FillingCheck™ and U-View™ feature (works for turbid and non-transparent samples, too)
- Perform tax- and customs-compliant alcohol measurements
- Easily assign and select specific measurement settings for your sample and have results stored in a traceable way
- Clean measuring cells quickly and conveniently with water or typical laboratory cleaners
- Use our lab execution software AP Connect to manage measurement data directly with your computer

RECOMMENDED CONFIGURATION AND OPTIONS

	PRODUCT	RECOMMENDED	OPTIONAL
Density	DMA 4501	×	
Refractive index	AbbeMAT 500	×	
Turbidity	Haze 3001		×
pH	pH 3101		×
Single-sample changer*	Xsample 320	×	
Lab execution software	AP Connect		×

*If required, the system can be configured with a multi-sample changer Xsample 520 instead.

TECHNICAL SPECIFICATIONS

DENSITY

DMA 4501



Accuracy	0.00005 g/cm ³
Repeatability	0.000005 g/cm ³

REFRACTIVE INDEX

ABBEMAT 500



Measuring range	1.26 nD to 1.72 nD
Accuracy	±0.00002 nD

TURBIDITY

Haze 3001



Measuring range	0 EBC to 100 EBC / 0 NTU to 400 NTU
Repeatability s.d.**	0.3 % of the measured value + 0.02 EBC / 0.08 NTU
Measurement uncertainty*	5 % of the measured value or 0.2 EBC / 0.8 NTU
Wavelength	650 nm

pH

pH 3101



Measuring range	pH 0 to pH 14
Repeatability s.d.	0.02 (in the range pH 3 to pH 7)

AUTOMATION

Xsample 320

Xsample 520



Filling mode	Peristaltic pump	
Magazine	No	24/48/96 positions

** According to formazine reference suspension

Your distributor: