LABORATORY MEASUREMENT

RHOTEC L

High-Precision Laboratory Determination of Density and Concentration

RHOTEC L determines the density and concentration of manually injected samples, such as extract, alcohol, sugar, acids, alkalis and solvents. The instrument is designed for laboratory applications requiring high sensitivity and accuracy.



Laboratory Application
Manual sample injection with a sample volume of approximately 2 ml.

Density and Concentration
Evaluation using the oscillating U-tube principle.

Operation
10-inch touchscreen and various interfaces.

Measuring Principle

The sample flows through a thin U-shaped tube that is electromagnetically excited at its resonant frequency. Density changes affect the oscillation behaviour. A product-specific mathematical polynomial describes the relationship between density and concentration.

Applications

- Extract
- Alcohol
- Sugar
- Acids
- Alkalis
- Solvents
- Laboratory Analysis
- Manual Samples

Temperature drift of the measurement signal is automatically compensated. European patent application: 1 439 438 B1.

Technical Data

Technical data for RHOTEC L laboratory analysis.

PARAMETER	RHOTEC L
Measuring Range	0 - 3 g/cm³
Accuracy	± 0,0001 g/cm³
Repeatability	± 0,00005 g/cm³
Sample Volume	≈ 2 ml
Measurement Duration	30 - 60 s
Operating Temperature	+5 to +85 °C
Temperature Sensor	Pt1000
Material	Glass, PTFE, aluminium
Display	10" Touchscreen
Interfaces	USB; WLAN; Ethernet
Weight	22 kg
Power Supply	230 VAC

High Accuracy

Precise determination of density and concentration.

Software

Compatible with MS Windows® and MS Office®.

Interfaces

USB, WLAN and Ethernet; 10-inch touchscreen.

Design & Integration

We support you with the project-specific selection and integration of the **RHOTEC L** - from measuring range and installation position to process connection and interfaces.

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