



**HEATED
FALLING-BALL
VISCOSITY METER**

DIGITAL PORTABLE LABORATORY

KINEMATIC VISCOSITY/DENSITY/SPECIFIC GRAVITY/CONCENTRATION METER*

Excellent correlation to
ASTM D 445, D341, ISO
12058, DIN 53015, IP71

Key solutions for
kinematic & dynamic
viscosity; density

Wide applications:
transparent, opaque, dark and
light-scattering liquids

TIME-PROVED TECHNOLOGY

* in combination with DenDi

Specifications

Ranges:	Viscosity, mPa·s (cP)	0.3...1600 (0.3...1600)
	Temperature, °C (°F)	up to +100 (up to +212)
Repeatability:	Viscosity, %	±1
	Temperature, °C (°F)	±0.02 (±0.04)
Resolution:	Viscosity, mPa·s (cP):	
	10...100	0.01 (0.01)
	100...1000	0.1 (0.1)
	1000...1600	1 (1)
	Temperature, °C (°F)	0.02 (0.04)
Time measurements accuracy, sec		0.0001
Time measurements resolution, sec		0.0001
Sample volume, ml		1.5
Heat time, min		max. 12
Measuring time, sec		0...90
Ambient temperature, °C (°F)		0...+50 (+32...+122)
Displayed parameters		Dynamic and Kinematic Viscosity; Density
Software		Windows based Software for PC or pocket PC
Power supply		110-230 VAC, 50/60 Hz
Dimensions, mm (in) (L x W x H)		185 x 150 x 240 (7.3 x 5.9 x 9.5)
Weight, kg (lb)		4.5 (9.9)

Principle of operation

Stokes' law is the basis of the falling sphere viscometer, in which the fluid is stationary in a vertical tube. A sphere of known size and density is allowed to descend through the liquid. If correctly selected, it reaches terminal velocity, which can be measured by the time it takes to pass two marks on the tube. Knowing the terminal velocity, the size and density of the sphere, and the density of the liquid, Stokes' law can be used to calculate the viscosity of the fluid.

Operation options

New Automatic falling-ball viscometer **BalVis** is developed to simplify viscosity measurement procedure for every single user. Easy cleaned, accurate and simple in operation **BalVis** allows to make measurements of dynamic/kinematic viscosity in a short period of time with no special skills required.

Built-in heating element allows to make measurements of very wide range of liquids. Entirely controlled by PC - **BalVis** has a user-friendly Software interface, which offers many benefits to the operator (saving results, printing, data base making etc.). In combination with any of **LEMIS India** density meter **BalVis** allows to make measurements of density, dynamic and kinematic viscosity with excellent correlation to international standards (ASTM, ISO, DIN).

Applications

- Food & Beverages
- Pharmaceuticals, Cosmetics
- Coatings, Paint, Polymers
- Petroleum industry
- Detergents, Soap

Advantages

- Simple in operation
- Easy cleaning
- One calibration for all test-tubes
- Controlled by PC
- User-friendly Software interface
- Only 1.5 ml of sample required
- Compact and lightweight design
- Wide application range
- Built-in heating element
- Accurate and fast results

BalVis COMBO



Combination of Viscosity meter BalVis and Portable Density Meter DenDi for determination of density, dynamic/kinematic viscosity.

Available BalVis combinations:



Combination of Viscosity meter BalVis with Pocket PC.

Software



Software under Windows for PC or Pocket PC.

For more information please visit www.lemis-process.com



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