

PORTABLE MICRO VISCOMETER

MINIVIS II

Fast Measurement
Fully Automatic
Easy Cleaning

Wide Application Range
Clear, Opaque, Dark and
Light-Scattering Liquids

0.4 mL Sample Volume
0.2 - 1500 mPas (cSt)
0 - 100 °C (Peltier)

Precision according to
International Standards
ASTM D 445, ISO 12058
DIN 53015

Laboratory and
On-line Operation





Wide Application Range

The MINIVIS II is a fully-automatic falling-ball viscometer for a wide range of applications. With its new reflection sensor, even samples as dark as used oil, heavy-oil, blood or black ink and as light-scattering as body lotions and milk can be measured with high precision and excellent reproducibility. For on-line applications, a valving system using a syringe with a flow-through insert is available.



Advanced Technology

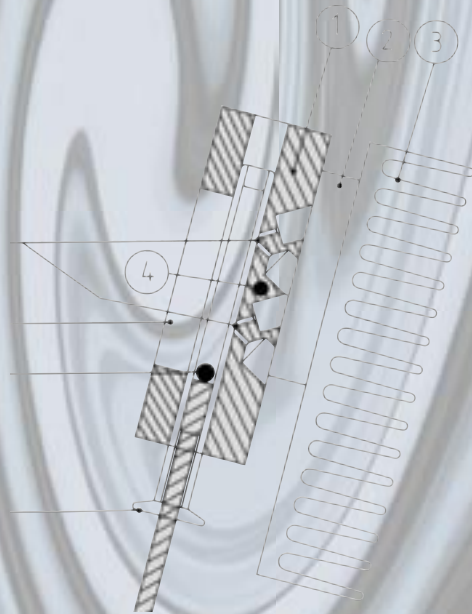
The fast and easy operation of this portable instrument, as well as the thermoelectric temperature regulation with Peltier elements, makes it possible to reduce the measuring time to approximately only 3 minutes. The extremely small sample volume (only 0.4 mL) and the measuring cell design eliminate the usual cleaning problems of capillary and rotational viscometers.



Highest Precision

The ability of the MINIVIS II to provide results of highest precision according to international standards for various industries makes it uniquely flexible. For the petroleum industry, the results of the widely used ASTM Standard D 445 can be emulated - much faster and easier than with ASTM Standard equipment. The pharmaceutical and cosmetics industries can rely on the results with the precision required by the ISO 12058 standard.

SMALL, FAST, FLEXIBLE AND EASY TO USE



Accessories:
Printer recommended

Principle of Operation

The 0.5 mL syringe (5) containing the ball (6) and the sample is inserted in the measuring chamber (1). The sample can be viewed through an illuminated measuring window (8). The temperature of the chamber is controlled by an internal thermoelectric (Peltier) element (2), which is connected to a heat sink (3). The temperature is measured with a Pt-100 RTD sensor (4). The ball is lifted automatically with a magnet and released so it falls only under the influence of gravity. The time of descent is measured with two reflection sensors (7).

Technical Data

Viscosity:	0.2 to 1500 mPas/cSt
Repeatability:	0.3% @ 1 mPas/cSt
Reproducibility:	0.5% @ 1 mPas/cSt
Measuring Temperature:	0 - 100 °C (32 to 212 °F)
Sample Volume:	0.4 mL
Measuring Time:	3 - 10 min (depends on viscosity)
Measuring Units:	mPas; cP; cSt; msec (selectable)
Dialog Languages:	English/German
Communication:	RS-232 serial port
Power requirements:	100/120/230/240 VAC, 50/60 Hz, 80 W
W x H x D:	196 x 315 x 175 mm 7.7 x 12.4 x 6.9 in
Weight:	8 kg (18 lbs)

Your distributor:

GRABNER INSTRUMENTS

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