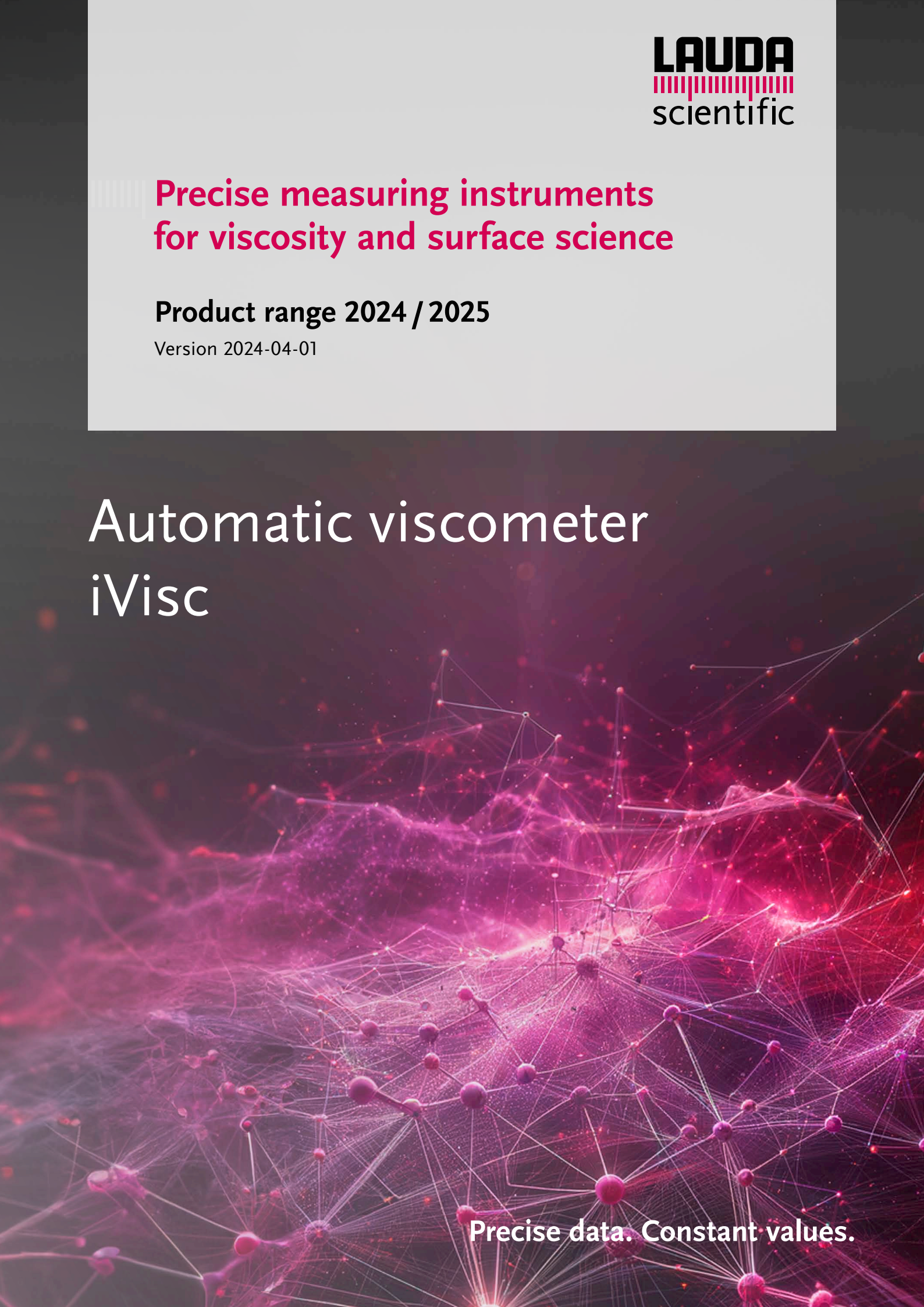
LAUDA scientific

Precise measuring instruments for viscosity and surface science

Product range 2024 / 2025

Version 2024-04-01

Automatic viscometer iVisc



Automatic viscometer iVisc

The compact, intelligent viscosity measuring stand iVisc is designed for a large spectrum of standard glass capillary viscometers (e.g. Ubbelohde, Micro-Ubbelohde, Cannon-Fenske and Micro-Ostwald).

Placing it in a suitable LAUDA Scientific thermostat (e.g. Viscocool 6, Viscotemp 18 or Viscotemp ET) and using the corresponding glass capillary viscometer, the kinematic viscosities in the range from 0.3 to 30,000 mm²/s can be determined. A wide range of applications can be accommodated as a result.

Special Features:

- "Plug & play" device installation via a single USB cable
- Connection of up to 8 iVisc units per computer
- Intuitive operation using software start/stop button on the device
- Exact and "intelligent" optical meniscus sensing for problematic liquids
- Operating status display via LEDs
- Just one cable (USB) for control and power supply via Desktop / Tower PC, Laptop, Netbook etc.
- Just 1 watt of power consumption over USB
- Measurement temperature from -20 to 150 °C

Scope of supply:

- Automatic viscometer iVisc
- Visco.Pilot software
- USB connection cable
- Set of viton connection caps

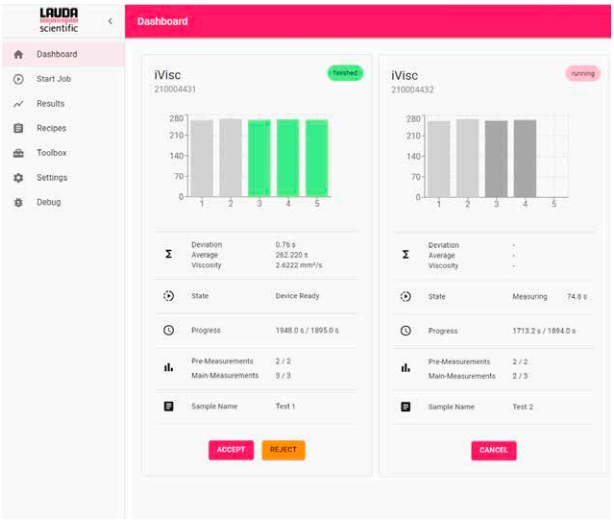
Not included:

- Windows-PC
- Viscometer capillaries

Note:

Compatible with a 3-legged Ubbelohde viscometer type 1, 3, 4 or 2-legged Cannon-Fenske viscometer type 5.

Technical data	iVisc (LMV 830)
Sample temperature range	-20...150 °C
Ambient temperature	10...45 °C
Measurement range time	0...9,999.99 s
Recommended measurement range of flow time	30...1,000 s
Viscosity range	0.3...30,000 mm^2/s
Resolution of time measurement	10 ms
Meniscus detection	Optical (near infrared)
Total power consumption	1 W
Dimensions (W x D x H)	95 x 96 x 425 mm
Power supply	USB
Weight, net	1.4 kg
Compatible Windows versions	7, 8, 8.1, 10, 11



Visco.Pilot - Software for iVisc

The head of the measuring stand completely controls the measuring process. This includes the operation of the pumps and pressure compensation valves, highly flexible meniscus sensing using an intelligent self-adaptive NIR light sensor, and precise measurement of the sample's flow time through the measuring capillary.

The most common formulas and calculations are included in the Visco.Pilot software, as well as a database of glass viscometers. The user-friendly software interface and the straightforward navigation significantly simplify the daily laboratory routine. After putting a filled glass capillary into the iVisc, the software coordinates all steps necessary to perform the measurement and executes the evaluation.

Special Features:

- Support of multi-instrument measurements for increased sample throughput with the iVisc
- Intuitive handling and use
- User-defined measurement procedures
- Latest result visible on dashboard

Accessories for iVisc

LDVM2026 Visco.Pilot Software Upgrade for iVisc
Allows to operate up to 8 iVisc licences in parallel, per licence

UG 003 Viscometer frame
For better handling of Ubbelohde/Micro-Ubbelohde capillaries

UG 094 Viscometer frame
For better handling of Micro-Ostwald capillaries

EZ 054 Viscometer holder
For 2-legged glass capillaries (Cannon-Fenske and Micro-Ostwald)

HKB 532 Adapter
Required for use of Micro-Ubbelohde capillaries

HKB 532

Special recommendation for iVisc

EGVZ001 Visco.Fix carousel
For Visco.Fix glass capillary viscometers, 4 upright and 4 downward positions, incl. 4 high waste beakers and 4 low waste beakers

Advantages and benefits:

- Safe storage on small footprint and no dusting of your capillaries
- Easy cleaning, clean draining and drying of your capillaries with individual waste beakers
- Always a suitable capillary at hand, even in the hectic lab situations

EGVZ001

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