

||||| **Precise measuring instruments
for viscosity**

Product range 2026 / 2027

Version 2026-04

Measuring stand S5



Precise data. Constant values.

Measuring stand S5



The S5 is a key component of the PVS system. Its head comprises opto-electronic meniscus detectors, as well as the entire control system for the measuring process, including a miniature pump and valves. The light sensor measurement system's accuracy and resolution are among the best in its class. The robust micro-pump pushes the sample into the capillary viscometer well, and the chemical-resistant valves allow for reliable, continuous operation.

Special Features:

- || Completely microprocessor-controlled for a highly precise time measurement
- || Adaptive infrared (NIR) detection
- || Short tubing to the viscometer
- || Compatible with Micro-Ubbelohde, Cannon-Fenske-Routine, and Micro-Ostwald capillary viscometers

Scope of supply:

- || Measuring stand S5
- || Connection cable
- || Set of viton connection caps
- || Tubing

Not included:

- || Control unit PVS Box
- || Measuring software
- || Capillary viscometer

Technical data	S5 stand (LMVZ948)
Sample temperature range	-65...160 °C
Time measurement range	0...9,999.99 s
Recommended measurement range of flow time	30...1,000 s
Viscosity range	0.3...50,000 mm ² /s
Resolution of time measurement	0.01 s
Meniscus detection	Optical (infrared)
Light sensor control	Digital (μP)
Dimensions (WxDxH)	90x90x500 mm
Weight, net	4.5 kg

Accessories for S5 stand



HKB 532

UG 003 Viscometer frame

For better handling of Ubbelohde/Micro-Ubbelohde viscometers

UG 094 Viscometer frame

For better handling of Micro-Ostwald viscometers

EZ 054 Viscometer holder

For 2-legged glass viscometers (Cannon-Fenske and Micro-Ostwald)

HKB 532 Adapter

Required for use of Micro-Ubbelohde viscometers

PVS Control unit



The PVS control unit is the system's core and the switching station between the PC and the components. Depending on the configuration, it can be equipped with up to four plug-in boards (up to 8 S5 stands, up to 4 VRM modules, up to 4 MT dosing systems and 4 motor locks on the VAS auto-sampler systems).

LMV 812 Control unit PVS 1/2

For 2 measuring stands

LMV 813 Control unit PVS 1/4

For 4 measuring stands

LMV 814 Control unit PVS 1/6

For 6 measuring stands

LMV 815 Control unit PVS 1/8

For 8 measuring stands

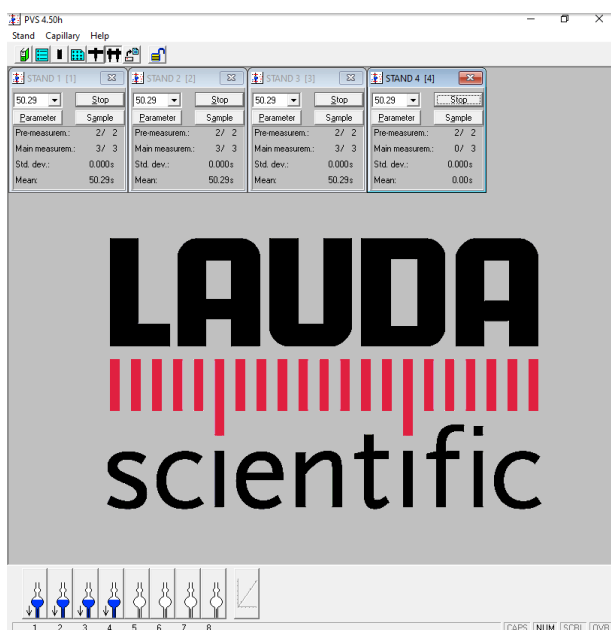
Scope of supply:

- || Control unit PVS Box
- || Measuring software
- || RS 232 connection cable
- || Power cable (Schuko/EU)

Note:

Each PVS control unit can be upgraded up to max. 8 measuring stands. This number can be lower when using additional options (e.g. dilution systems, Autosampler etc.).

Technical data	Control unit PVS Box
Interface to the PC	RS 232 C
Dimensions (WxDxH)	340x270x105 mm
Weight, net	4.6 kg
Ambient temperature	10...45 °C
Total power consumption	100 W
Compatible Windows versions	7, 8, 8.1, 10, 11

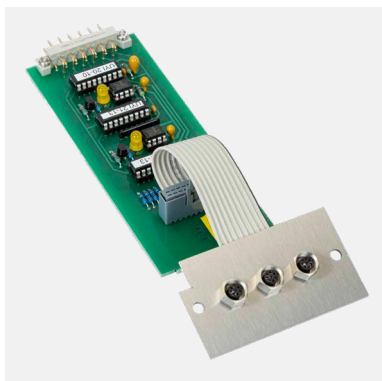


Windows-based software

All PVS system configurations are controlled by the PVS software. This high-performance, user-friendly software controls the measurement, cleaning, and calculation of intrinsic, kinematic, dynamic, relative, reduced, and inherent viscosity, as well as the K-value. Additional software modules can be used to determine further material properties.

Measuring results and evaluations can be printed and saved as an ASCII file. The measurement report logs all data from a given day in chronological order and saves it in a file marked with the date. This data can be viewed at any time, ensuring consistent documentation. Further processing in other programs, such as MS Excel, and in other networks is possible.

Accessories for control unit PVS Box



LMVZ930

LMVZ930 2-place plug-in unit ME 2

For additional 2 measuring stands and one additional VRM module

Viscosity software support services

D7 E998-2 PVS software upgrade to Windows 10/11

Upgrade from an earlier Microsoft Windows version (Windows 7, 8, 8.1) to the latest version, upgrade from older version on request

D7 E998-3 PVS data transfer

Individualized installation file for Microsoft Windows 10/11, incl. methods and data from an already existing system (backup)

D7 E998-4 PVS-LIMS implementation standard

Standard development service for connecting the PVS software to existing database systems via ASCII data storage

D7 E998-5 PVS-LIMS implementation individual

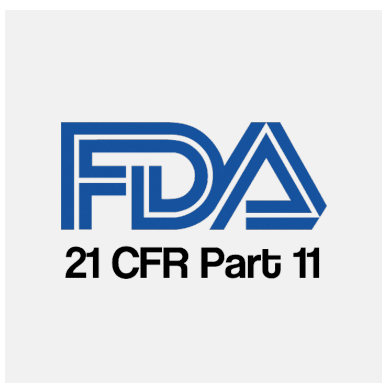
Individual development service for connecting the PVS software to existing database systems e.g. SAP, Oracle, MS-SQL, MS-Access etc.

D7 E998-7 PVS support module "21 CFR part 11"

This module of our PVS software supports you in implementing the requirements of 21 CFR Part 11 for your LAUDA Scientific viscosity measurement system.

Including:

- II Password-controlled 4-level user registration and the cryptic data storage.
- II IQ / OQ documentation template for viscometry tests



D7 E998-7



LRZ 913

Application software

LDVM2017 PVS software module ENZ-DLL

For determination of enzyme activity

LDVM2023 PVS software module TEMP-DLL

For software control of LAUDA thermostats, incl. USB- and RS 232 connection cable, requires an LAUDA thermostat with RS 232/585 interface (LRZ 913)

LRZ 913 RS 232/485 Interface for viscothermostats

Plug-in module to upgrade a LAUDA Scientific viscothermostat with a RS 232/485 interface

