

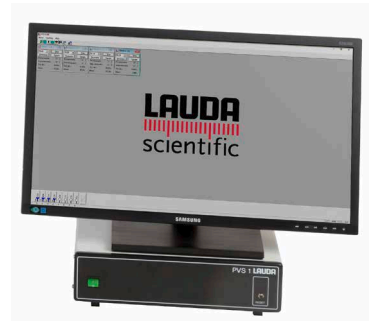
**Precise measuring instruments for
viscosity and surface science**

Product range 2023 / 2024

Version 2023-04-01

Autosampler system VAS

Autosampler viscosity system VAS 2



The sampler offers the convenience of full automation at the highest sample throughput rate as an add-on to the two-station (VAS 15/2 and VAS 24/2) or four-station (VAS 24/4) measuring systems. Depending on the size of the sample bottles, up to 41 samples can be processed in one session. The system is controlled using a special PVS program which permits the safe application-specific allocation of the measurement samples to the matching glass viscometers, e. g. through direct “drag & drop” from the task list which was generated during sample preparation. The measurement of the samples is done in the S5 measuring stand, while the cleaning of the glass capillary viscometers and dosing syringes is done via suitable VRM modules.

Accessories:

- || Suitable viscothermostat: Proline PV(L) 15 or 24
- || Required number and type of capillaries
- || Required number and type of VRM modules
- || Required number and type automatic transfer locks with connection sets
- || Sample flasks and screwing caps
- || Sealing rings
- || Aluminum plates
- || Insert filters
- || Sample preparation sets

Special Features:

- || Retrofittable automatic multi-station viscosity measuring system
- || Up to four stations (VAS 24/4) for the highest possible sample throughput
- || Easy to program sample processing and fast sample switching possible
- || Assignment of processing priorities possible
- || Sample-specific applications can be defined (e.g. kinematic and relative viscosity, IV and K-values)
- || Direct glass viscometer sample injection without contamination at the tubing
- || Optional rinsing with two solvents or with next sample
- || Automatic software-controlled sample locks

Starter kits

Images show not included accessories, e.g. thermostat and sample flasks



Technical features	VAS 15/2 (LMV 822)	VAS 24/2 (LMV 820)	VAS 24/4 (LMV 821)
Incl. autosampler type	VAS S	VAS L	VAS L
Incl. dosing syringe	Standard (UD 556)	Standard (UD 556)	Standard (UD 556)
Incl. control unit	PVS 1/2	PVS 1/4	PVS 1/4
Incl. amount of S5 measuring stands	2	2	4
Size of sample flasks	50ml	50ml	50ml
Incl. VAS cover plate	S50 for PV(L)	L50 for PV(L)	L50 for PV(L)
Amt. of sample positions	14	29	29
Syringe wash station with VRM 4	✓	✓	✓
Incl. set of waste and reservoir bottles	Flask set 15 (LMRZ931)	Flask set 24 (LMRZ930)	Flask set 24 (LMRZ930)
Viscosity range samples	0.3...100mm ² /s	0.3...100mm ² /s	0.3...100mm ² /s
Dimensions (WxDxH)	850x650x1,100 mm	1,200x650x1,100 mm	1,200x650x1,100 mm
Weight, net	ca. 60 kg	ca. 70 kg	ca. 80 kg

A detailed **example configuration** as well as a **configuration guide** can be found on p. 12

PVS upgrade sets to VAS 2

With our PVS to VAS upgrade sets it is possible to upgrade your existing PVS system to a fully automatic autosampler VAS 2 system. All your existing devices remain and get integrated. The modularity of our viscosity measurement systems gives you the freedom to adapt easily, flexibly and economically to your current needs at any time.

LMV 823 Upgrade set VAS 15 for PV(L) 15

Incl. autosampler VAS S, standard dosing syringe UD 556, VAS cover plate S50 for PV(L) 15 for 50 ml sample flasks with 14 sample positions, syringe wash station with VRM 4, 2-place plug-in unit for PVS box (LMVZ930), plug-in unit for PVS box for 4 motor lock control (LMVZ943).

LMV 824 Upgrade set VAS 24 for PV(L) 24

Incl. autosampler VAS L, standard dosing syringe UD 556, VAS cover plate L50 for PV(L) 24 for 50 ml sample flasks with 29 sample positions, syringe wash station with VRM 4, 2-place plug-in unit for PVS box (LMVZ930), plug-in unit for PVS box for 4 motor lock control (LMVZ943).

Accessories for Autosampler viscosity system VAS 2



LMVZ984

Connection sets with automatic transfer locks

For **each** measuring stand S5 there is **separate** connection set needed, according to the used viscometer type.

LMRZ924 Connection set 3

For viscometer with aspirating leg (Type 2, Type 6), incl. automatic transfer lock 1 (UD 701-B), tubing set 4-leg (LMRZ937)

LMRZ925 Connection set 5

For viscometer without aspirating leg (Type 1, Type 3, Type 5, Type 7), incl. automatic transfer lock 2 (UD 703-B), tubing set 3-leg (LMRZ938)

Special cover plates for VAS 2

For use with 30ml or 100ml sample flasks. Factory configuration only.

LMVZ986 VAS cover plate S30

For 30ml sample flasks with 17 sample positions

LMVZ984 VAS cover plate L30

For 30ml sample flasks with 41 sample positions

LMVZ985 VAS cover plate L100

For 100ml sample flasks with 19 sample positions





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