

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

**Product range 2024 / 2025**

Version 2024-04-01

# Autosampler system VAS

**Precise data. Constant values.**

## Autosampler viscosity system VAS 2



The VAS autosampler offers the convenience of full automation with 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 VAS 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: Viscotemp Pro 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-stand viscosity measuring system
- || Up to four S5 stands (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 sample injection into viscometer without contamination
- || Optional rinsing with two solvents or with next sample
- || Automatic software-controlled sample locks

## Starter kits

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



Technical data	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	50 ml	50 ml	50 ml
Incl. VAS cover plate	S50 for Viscotemp Pro 15	L50 for Viscotemp Pro 24	L50 for Viscotemp Pro 24
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...100 mm <sup>2</sup> /s	0.3...100 mm <sup>2</sup> /s	0.3...100 mm <sup>2</sup> /s
Dimensions (WxDxH)	850x650x 1,100 mm	1,200x650x 1,100 mm	1,200x650x 1,100 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 VAS 2 autosampler system. All your existing devices remain in use and get integrated. The modularity of our viscosity measurement systems gives you the freedom to adapt easily, flexibly and economically to your latest needs at any time.

### LMV 823 Upgrade set VAS 15 for Viscotemp Pro 15

Incl. autosampler VAS S, standard dosing syringe UD 556, VAS cover plate S50 for Viscotemp Pro 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 Viscotemp Pro 24

Incl. autosampler VAS L, standard dosing syringe UD 556, VAS cover plate L50 for Viscotemp Pro 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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