

ViscoScope VS-x450 transmitter

The allrounder with and without display



2 transmitters **VS-4450** (with display) and **VS-B450** (without display) each mounted into 19" rack, 84TE

ViscoScope transmitters in the **VS-4450** (with display) and **VS-B450** (without display) ranges are compatible with all ViscoScope sensors of the types **VA-300** and **VA-100**.

Designed according to the 19" standard, the transmitters can be mounted in all suitable housings. 19" racks with space for up to four transmitters are suitable for mounting the units in control panels. An IP65 wall-mounted housing is recommended if the display has to be mounted on-site. Explosion-proof housings are also available (pressure-capsulated or flushed with protective gas). The transmitters are usually supplied in a 144 x 144 mm control panel mounting.

The transmitter stimulates the sensor and uses a fast loop PID control system to keep the amplitude of the resonance frequency of the sensor constant, i.e. the higher the viscosity, the greater the voltage – which is a measure for the dynamic viscosity in $\text{mPa}\cdot\text{s} \times \text{gr}/\text{cm}^3$ ($\eta \times \rho$).

The system is factory-calibrated and ready for immediate use. The measurements are transferred via standard analog or serial outputs.

The **ViscoView**[®] (for data recording) and **VisConfig** (for the transmitter configuration) software packages are also available as an option.

Transmitter - Specification

Transmitter type	VS-4450	VS-B450
Measured parameters	Viscosity Temperatures External input Resonance frequency	
Calculated parameters	Temperature compensation Dynamic viscosity Kinematic viscosity User viscosity	
Display	4-line alphanumeric 2 pages	withour display
Outputs	front panel RS232 output, MODBUS RTU (Standard)	
4 slots for optional analog or serial outputs	0/4..20 mA or 0/2..10 VDC RS232 or RS485 2 SPDT-Relays	
External input	0/4..20 mA or 0/2..10 VDC, i.e. for density or pressure	
Transmitter configuration	with a PC or via push buttons on front panel	with a PC
Filter	Moving average (up to 200 measurements)	
Alarm system	System function Sensor diagnostics Coil temperature 2 configurable LED's	System function
Power supply	95..260 VAC, 50..60 Hz, 15 W option: 24 VAC / VDC	
Dimensions	19"-Standard 3HE 21TE x 180 mm	
Enclosures	Panel mount 144 x 144 x 218 mm, IP42 Wall mount, IP65 19"-rack mount, 3HE 84TE	
Ambient temperature	0°C to 50°C / 0°F to 122°F	



VS-4450 with display, build into panel mount housing



VS-4450 with display, build into wall mount enclosure, IP65