



Rheology Solutions

Rheology Solutions is the sole Australian distributor of this product range and we welcome the opportunity of discussing your application requirements.

*We hope the information you are seeking is contained within this file.
If you have any questions, or require further information please contact us.
We look forward to being of further service.*

Regards from the Team at Rheology Solutions.

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ViscoScope Transmitter VS-4450 / VS-B450



VS-4450 with display and VS-B450 without display in a 19" Rack 3HE 84TE

The transmitter VS-4450 has an alphanumeric display, alarm LED's and push buttons for configuration. The model VS-B450 has the same functionality as the VS-4450 but only has a single LED indicator. Both transmitters can be configured with a Palm, Pocket-PC or PC connected to the DB9 plug on the front panel. For transmission of the measured parameters standard analog and/or serial outputs are available.



Panel mount housing
144 x 144 mm



Wall mount housing

Specifications

Transmitter type	VS-4450 and VS-B450
Measured parameters	<ul style="list-style-type: none"> • Viscosity • Temperatures (0,1°C) of process, coils and microprocessor • External input • Resonance frequency for sensor diagnostics
Display (only VS-4450)	<ul style="list-style-type: none"> • 4-line alphanumeric display, divided into 2 pages, configurable for 4 parameters each
Transmitter configuration	<ul style="list-style-type: none"> • With a Palm, Pocket PC or PC connected to any of the serial interfaces. VS-4450 • Additionally via push buttons on front panel
Calculated parameters	<ul style="list-style-type: none"> • Temperature compensation to ASTM D-341 • Equal percentage temperature compensation • Dynamic and kinematic viscosity • User viscosity via scaling factor and zero shift
Filter	<ul style="list-style-type: none"> • Moving average: 0 – 200 measurements
Alarm system	<ul style="list-style-type: none"> VS-4450 • System function • Sensor diagnostics • Coil temperature • 2 configurable LED's (viscosity / temperature) VS-B450 • Like VS-4450 but only one LED for function
Outputs	<ul style="list-style-type: none"> • 1 integrated front panel RS232 output for configuration, Modbus protocol • 4 slots for optional boards: 3 analog outputs and 1 serial output or 4 analog outputs Available cards are: • 0 or 4–20 mA / 0 or 2-10 VDC (selectable) Outputs are configurable and optically isolated • RS232 or isolated RS485, Modbus protocol • 2 SPDT Relays, configurable for all available alarm parameters. One relay can be used with the built-in time proportional control functions
External input	<ul style="list-style-type: none"> • 1 input 4-20 mA, i.e. for density or pressure
Dimensions	<ul style="list-style-type: none"> • 3HE 21TE x 180 mm
Power supply	<ul style="list-style-type: none"> • 95 ... 260 VAC, 50 ... 60 Hz, 15 Watt Optional • 24 VDC / VAC
Ambient temperature	<ul style="list-style-type: none"> • 0 to 50°C / 0 to 122°F
Housings	<ul style="list-style-type: none"> • Panel mount 144 x 144 x 218 mm, IP42 • Wall mount, IP65 • 19" rack mount, 3HE 84TE