MARIMEX® ViscoScope® D250/4450

Transmitter for process viscometer

- Compatible with all ViscoScope® sensors
- Panel or field mounting
- Process documentation via 4-20 mA / fieldbus
- Local display (4-line display)
- Div. calculable parameters



Transmitter

Display Unit

Condition monitoring

Technical data

| Properties | |
|-----------------------|--|
| Display | 4-line alphanumeric - 2 pages |
| Outputs | RS232 output on the front, MODBUS RTU (standard) |
| Outputs optional | 0/420 mA or 0/210 VDC (active RS232 or RS485 / 2 SPDT relays RS232 or RS485 (note type code) |
| Output card socket | 4450: 4 D250: 2 |
| External input | 0/420 mA or 0/210 V DC |
| Transmitter operation | 3 buttons on the front |
| Filter | Moving average (up to 200 measured values) |
| Alarms | System function, sensor diagnosis, coil temperature, 2 adjustable LEDs |
| Power supply | 4450: 95250 VAC 5060 Hz, 15 W , 24 V AC / VDC D250: 24V DC, 12 W |
| Dimensions | 4450: 19"-Standard 3HE 21TE x 180 mm D250: 142 x 106 x 73 mm (L x B x H) |

Operating conditions

| Measurement parameters | Viscosity, Process Temperature, Coil Temperature, External Input, Resonance Frequency |
|------------------------|---|
| Calculable parameters | Temperature compensation, Dynamic viscosity, Kinematic viscosity, User viscosity |
| Ambient temperature | 050 °C |

General description

The ViscoScope® transmitters of the VS-4450 and VS-D250 series are compatible with all ViscoScope® sensors of the types VA-300 and VA-100 and their predecessor models.

The transmitter excites the sensor and keeps the amplitude of the sensor's resonance frequency constant with fast PID control. The internal resolution is 16 bits, so that viscosity ranges over 4 decades are also excellently covered.

Both transmitters are equipped with a configurable display. The transmission of the measurement data is done via analogue or serial interfaces in industry standard. The model VS-4450 is also available with 2 SPDT relays, which allow time-proportional control or alarms.

Installation and assembly

The transmitter VS-4450 is designed in 19" standard and can therefore be installed in all suitable housings. The model VS-D250 is designed for mounting on a DIN rail. With an adapter, wall mounting as well as installation in a wall or Ex-d enclosure is possible.

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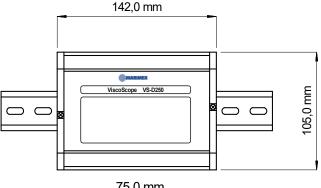


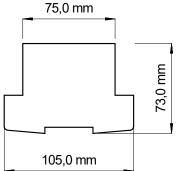
ViscoScope® D250/4450

Dimensional Drawing

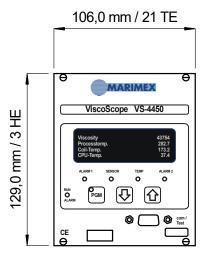
Dimensioning in mm

VS-D250





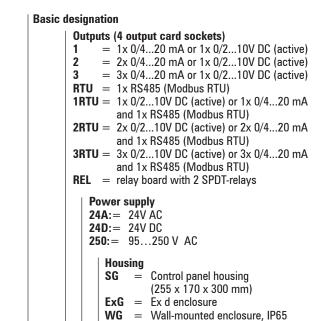
VS-4450





model code

Basic designation Outputs (2 output card sockets) = $1 \times 0/4...20$ mA or $1 \times 0/2...10$ V DC (active) = $2 \times 0/4...20$ mA or $1 \times 0/2...10$ V DC (active) RTU = 1x RS485 (Modbus RTU) **1RTU** = $1 \times 0/2...10 \text{V DC}$ (active) or $1 \times 0/4...20 \text{ mA}$ and 1x RS485 (Modbus RTU) **Power supply 24D**:= 24V DC Housing **DG** = DIN rail housing, IP42 ExG: = Ex d enclosure VS-D250



= 19" Rack, 3U 84HP

19

VS-4450



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