

**Explosion protection**

Marking	ATEX: on request IECEX: on request NEC 500/NEC 505: on request EAC TR CU: on request
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**Technical data**

Technology	continuously analyzing kinematic viscosities at 40 °C and 100 °C, capillary-type
Method	compliant with: ASTM D445, ASTM D2270, ASTM D341, DIN EN ISO 3104, IP 71
Measuring range and temperatures	viscosity index 80 to 120 (other temperatures on request) L T <sub>M</sub> *: 20 to 60°C (68 to 140°F) M T <sub>M</sub> *: 40 to 60°C (106 to 140°F) H T <sub>M</sub> *: 50 to 100°C (122 to 212°F) t viscosity 0.7 to 30 cSt v viscosity 10 to 500 cSt/200 to 1000 cSt
Measuring cycle	continuous
Product streams	2 x sample, 1 x validation (additional hardware required)
<b>– Electrical data</b>	
Nominal voltage	230 V AC ± 10 %, 1 phase; 50 Hz; other ratings on request
Maximum power consumption	approx. 1000 W
<b>– Protection class</b>	
IP 54 (comparable with NEMA 13)	
<b>– Ambient conditions</b>	
Ambient temperature	operation 5 to 40 °C (41 to 104 °F) storage 0 to 60 °C (32 to 140 °F)
Ambient humidity	operation 5 to 80 % relative humidity, non-corrosive storage 5 to 85 % relative humidity, non-corrosive
<b>Sample</b>	
Quality	t filtered 10 µm, bubble-free v filtered 50 µm, bubble-free max. viscosity 800 cSt at the lowest temperature (technical clarification required) (sample as coolant ≤ 10 cSt)
Consumption	3.8 to 10 l/h (depends on variant)
Pressure at inlet	3 to 14 bar (43.5 to 203 psi)
Temperature at inlet	50 to 60 °C; changes ≤ 0,1 K/min
<b>Utilities</b>	
<b>– Instrument air Consumption</b>	
Purge	11 Nm³/h while purging (~16 min)
Operation	approx. 1 Nm³/h
Pressure at inlet	3 to 7 bar (43.5 to 101.5 psi)
Quality	humidity class 2 or better acc. to ISO 8573.1
<b>– Coolant</b>	

Consumption	sample as coolant: 20 to 40 l/h or plant cooling water: 20 to 40 l/h for re-cooling of peltier device
Temperature	5 to 50 °C (41 to 122°F)
Pressure at inlet	2 to 7 bar (29 to 101.5 psi)
Quality	filtered 50 µm
<b>Signal outputs and inputs</b>	
Analog outputs	viscosity index others on request)
Digital outputs	Alarm, Ready/Valid
Digital inputs	Validation Request, Reset
<b>Electrical data of signal outputs and inputs</b>	
Analog outputs	max. 8 (4 to 20 mA; 1000 Ω) active isolated on request
Analog inputs	4 to 20 mA; 160 Ω
Digital outputs	24 V DC; max. 0.5 A
Digital inputs	high: 15 to 28 V DC low: 0 to 4 V DC
Auxiliary power supply output	24 V DC; max. 0.8 A
<b>Control unit</b>	
Central control unit	Industrial PC
Operating system	Windows Embedded Standard 7®
Control software	PACS
<b>User interfaces</b>	
Display	TFT display with touch function 1024 x 768 pixe
Keyboard	virtual keyboard, controlled via TFT display with touch function
<b>Connections</b>	
Tube fittings	Swagelok® 6 mm/12 mm/18 mm other fittings on request
Vent/Drain	open to atmosphere, backpressure on request
<b>Weight and dimensions</b>	
Weight	approx. 250 kg
Dimensions (W x H x D)	approx. 1190 x 1930 x 710 mm
Space requirements	right: 150 mm/left: 100 mm
<b>Optional interfaces</b>	
Analog outputs	on request
MODBUS interface	MODBUS/RTU via RS485 or RS422 or FOC is, MODBUS/TCP via FOC is
Remote access	via Ethernet (VDSL or FOC is)