

Explosion protection

Marking	ATEX: II 2G Ex h IIC T4 Gb X IECEX: on request
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Technical data

Technology	FT-NIR Spectroscopy
Measuring range	800 nm – 2500 nm (12800 – 4000 cm ⁻¹)
Optical resolution	Up to 2 cm ⁻¹
Wavenumber accuracy	< 0.1 cm ⁻¹
Wavenumber reproducibility	< 0.04 cm ⁻¹
Laser	HeNe-Laser

Electrical data

Nominal voltage	230 VAC ± 10%, 1 phase, 50 Hz; other ratings on request
Maximum power consumption	approx. 450 W
– Protection class	IP 54 (comparable with NEMA 13)
– Ambient conditions	
Ambient temperature	operation 5 to 40 °C (41 to 104 °F) storage -20 to 60 °C (-4 to 140 °F)
Ambient humidity	operation 5 to 80 % relative humidity, non-corrosive storage 5 to 80 % relative humidity, non-corrosive
Sample	
Quality	filtered 5 µm, free of suspended water and air bubbles
Consumption	Typically 20 l/h
Pressure at inlet	1 bar above the pressure at outlet max. 10 bar
Temperature at inlet	depends on application, max. 55 °C (131 °F)

Signal outputs and inputs	
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
Control unit	
Central control unit	Industrial PC
Operating system	Windows 10 Enterprise LTSC
Control software	PACS
User interfaces	
Display	TFT display with touch function 1366 x 768 pixel
Keyboard	virtual keyboard, controlled via TFT display with touch function
Connections	
Tube fittings	Swagelok® 12 mm/18 mm other fittings on request
Vent/Drain	atmospheric or backpressure: 1 bar below the pressure at inlet
Weight and dimensions	
Weight	approx. 350 kg
Dimensions (W x H x D)	855 x 1890 x 828 mm
Space requirements	right: 500 mm/left: 500 mm
Optional interfaces	
Analog outputs	on request
Analog inputs	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)