

Explosion protection

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| Marking | ATEX: II 2G Ex h IIC T4 Gb X IECEX: Ex IIC T4 Gb NEC 500: Class I, Division 2, Group B,C and D NEC 505: Class I, Zone 1, AEx db eb ib pxb IIC T3 resp. T4 CEC Sec. 18: Ex db eb ib pxb IIC T3 resp. T4 TR CU: II Gb T4 X |
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Technical data

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| Technology | plugging sieve |
| Method | compliant with: ASTM D6371, DIN EN 116, DIN EN 16329, IP 309 |
| Measuring range | -35 to 15 °C (-31 to 59 °F) |
| Repeatability | ≤ DIN EN/ASTM |
| Reproducibility | ≤ DIN EN/ASTM |
| Measuring cycle | discontinuous 25 to 90 min depends on CFPP temperature |
| Product streams | 2 x sample, 1 x validation (additional hardware required)) |
| – Electrical data | |
| Nominal voltage | 230 V AC ± 10 %, 1 phase; 50 Hz; chiller: 400 V AC ± 10 %, 3 phases; 50 Hz other ratings on request |
| Maximum power consumption | approx. 3000 W (incl. Chiller) |
| – Protection class | |
| IP 54 (comparable with NEMA 13) | |
| – Ambient conditions | |
| Ambient temperature | operation 5 to 35 °C (41 to 95 °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 |
| Sample | |
| Quality | filtered 10 µm, moisture content max. 550 ppm (≤ 37 cSt at inlet temperature) |
| Consumption | 20 to 40 l/h |
| Pressure at inlet | 1 to 4 bar (14.5 to 58 psi) |
| Temperature at inlet | ≥ 15 °C (59 °F) |
| Utilities | |
| – Instrument air Consumption | |
| Purge | 8 Nm ³ /h while purging (~12 min) |
| Operation | approx. 2.3 Nm ³ /h |
| Pressure at inlet | 3 to 7 bar (43.5 to 101.5 psi) |
| Quality | dew point ≤ -40 °C (-40 °F) humidity class 2 or better acc. to ISO 8573.1 |
| – Coolant | |
| FKS-KWS with „Temper -55" integrated | |

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| Signal outputs and inputs | |
| Analog outputs | Cold Filter Plugging Point (others on request) |
| Digital outputs | Alarm, Ready/Valid |
| Digital inputs | Stream Selection, Validation Request, Reset |
| Electrical data of 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 LTSB |
| 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® 6 mm/12 mm/18 mm other fittings on request |
| Vent/Drain | open to atmosphere |
| Weight and dimensions | |
| Weight | approx. 400 kg |
| Dimensions (W x H x D) | approx. 1140 x 2130 x 710 mm |
| Space requirements | right: 150 mm/left: 100 mm |
| Optional interfaces | |
| 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) |