

Technical Specifications DynamiQ-X micro-GC analyzer

| Ambient operating temperature | -20 °C to 55 °C / -4 °F to 131 °F |
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| Ambient storage temperature | -25 °C to 70 °C / -13 °F to 158 °F |
| Ambient relative humidity | 5% to 95% non-condensing |
| Dust/water protection | IP65 (only valid with receptacle cap/mating connector and gas port mating connections) |
| Mechanical environmental classification | M2 |
| Power supply | 20 VDC to 28 VDC |
| Maximum power consumption | 75 W |
| Electromagnetic environmental classification | E2 |
| Dimensions | 289 x 258 x 122 mm / 11.4 x 10.2 x 4.8" (without mating connector, without mounting brackets) |
| Weight | <15 kg / 33 lb. (without mounting brackets) |
| Minimal distance from wall/ceiling | 50 mm / 2" |
| Columns type | Variety of silica (WCOT/PLOT) columns |
| Number/type of GC units | 1 to 4 columns/temperature-ramping possible (isothermal recommended) |
| Column temperature range | 70 °C to 150 °C |
| Column temperature stability | ± 0.1 °C |
| Carrier gas | He, Ar, N ₂ , H ₂ |
| Gas purity | ≥ 99.999% |
| Required filtration | 5 µm filter size |
| Carrier gas consumption | 2-5 ml/min per GC channel (application dependent) |
| Carrier gas input pressure | 450 ± 5% kPa |
| Gas ports | 1/16" VICI |
| Sample inlets | Maximum 4 |
| Sampling | Pressurized sample or sample pumping |
| Gas ports | ½16" VICI |
| Sample conditions | Non-condensing gas of 0 °C to 50 °C |
| Sample pressure | 10 kPa to 200 kPa (application dependent) |
| Injector type | Foreflush and backflush-to-detector |
| Heated injector | Up to 120 ℃ |
| Injection volume | 0.1-17 μL uncompressed, time based |
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| On chip dual channel foreflush and backflush TCD |
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| 15 nl |
| Inert coated sensors |
| Intrinsically safe against heater burnout |
| 500 ppb to 100% (application dependent) |
| < 500 ppb |
| 0.05% RSD |
| Typical 15 s to 60 s (application dependent) |
| Ethernet, RS-232, RS-485, Digital I/O |
| Modbus (over ethernet and serial) |
| C € 0344 (Ex) II 2G Ex db IIB+H₂ T4 Gb |
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| ATEX certificate: DEKRA 16ATEX0111 |
| IECEx certificate: IECEx DEK 16.0065 |
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