Technical Specifications DynamiQ-S micro-GC analyzer

Ambient operating temperature	5 °C to 55 °C / 41 °F to 131 °F
Ambient storage temperature	-20 °C to 60 °C / -4 °F to 140 °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)
Power supply	20 VDC to 28 VDC
Maximum power consumption	75 W
Dimensions	250x180x100 mm / 9.8 x 7.2 x 3.8 "
Weight	< 8 kg / 17.6 lb.
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	$\frac{1}{16}$'' VICI
Sample inlets	3 or more
Sampling	Pressurized sample or sample pumping
Gas ports	$\frac{1}{16}$'' 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 °C
Injection volume	0.1-17 µL uncompressed, time based
Detector type	On chip dual channel foreflush and backflush TCD
Internal flow path TCD	15 nl
Chemical protection	Inert coated sensors
Thermal/electrical protection	Intrinsically safe against heater burnout

Detection range	500 ppb to 100% (application dependent)
Detection limit (for pentane in natural gas)	< 500 ppb
Repeatability (for concentrations > 0.1%)	0.05% RSD
Cycle time	Typical 15 s to 60 s (application dependent)
Communications supported	Ethernet, RS-232, RS-485, Digital I/O
Protocols supported	Modbus (over ethernet and serial)