



Vertex M SPECIFICATIONS

Multi-Point Toxic Gas Monitoring System

General Specifications	
Uses	8 to 24 point toxic gas monitor configurable for use with up to 3 universal Chemcassette analyzers or combination 1 pyrolyzer analyzer/1 universal Chemcassette analyzer
Power requirements	110 or 230 VAC
Physical dimensions	
Height	56 in. (144.8 cm)
Width	24 in. (61 cm)
Depth	36 in. (91 cm)
Weight	551 lbs. (250 kg) with 3 analyzers Universal Analyzer: 31 lbs. (14 kg) Pyrolyzer Analyzer: 48 lbs. (22 kg) Empty Vertex M Rack: 458 lbs. (208 kg)
Tubing dimensions	
Sample lines	¼ in. (6.35 mm) O.D. x 0.190 in. (4.83 mm) I.D. FEP Teflon or ¼ in. (6.35 mm) O.D. x 0.156 in. (3.9 mm) I.D. FEP Teflon Sampling Distance: Up to 400 ft. maximum
Exhaust line	½ in. (12.7 mm) O.D. x 3/8 in. (9.5 mm) I.D. polypropylene tubing, Exhaust line: 50 ft. (15 m) maximum
Operating characteristics	
Operating Voltage	110 or 230 VAC ± 10% (underload) @ 50/60 Hz; 15 Amps maximum, single phase
Operating Temperature	59°F to 95°F (15°C to 35°C)
Operating Humidity	20-65% RH
Operating Altitude	–1000 ft. (–305 m) to 6000 ft. (1829 m) above sea level
Communications/Interface	
Network Interface	OLE for Process Control (OPC) Interface
Output Options	DeviceNet, ControlNet, Profibus - DP, LonWorks, DF1, Modbus/TCP, ModBus Plus, Ethernet/CIP
Analog Option	4-20 mA (24 channels)
Relay Options	Isolated (08X) or Non-Isolated (016X); Via PLC: 32 relays for 8 channel isolated relay option; 64 relays total for 16 channel non-isolated relay option
Alarm/Fault	Capable of A1 and A2 alarms per point, per point maintenance/instrument faults, as well as general analyzer A1, general analyzer A2, and general analyzer instrument/maintenance faults
HMI/LCD Screen	1024 x 768 resolution, touch screen operation with at-a-glance system status.
Other Optional Accessories	
	Sample line integrity test Duct adaptors ChemCam video monitoring camera Remote viewing/control software