Specifications

	Vortex	Vortex Rack/Panel
Size	470 x 306 x 170mm (18.5 x 12 x 6.5 ins)	Rack display: standard 19” 3U Panel display: 441 x 128mm (cut-out 366 x 84.5mm) Modules, PSU and batteries are supplied separately for fitting within a cabinet.
Weight	12Kg (27lbs)	Dependant on configuration
Enclosure material	Back-box: Aluminium Front cover: ABS	Not applicable
Ingress protection	IP66	Cabinet dependent
Channels	Up to 12 (1 to 3 4-way input modules)	
Operating temperature	-10°C to +40°C (14°F to +140°F)	
Humidity	0-95% RH non-condensing	
Inputs	**Gas** 2 or 3 wire 4-20mA (sink or source), 0-5V	
	Fire – smoke & heat detectors, manual call-points Up to 3 loops, Up to 20 devices per loop	
Outputs	**External audible/visual alarm drive** Via relays, four 24Vdc 0.5A supplies provided.	
Relays	**Type** Up to 24 SPCO, contacts rated 6A @ 250Vac (1 to 3 8-way relay modules)	Up to 32 SPCO with bus extension module
	Assignment – Common Mains fail, battery low and fail	

	Assignment – Voting Alarms, faults and system events
	Relay modes Energised/de-energised, latched/non-latched, time-delayed, pulsed
Digital communications	DCS/PLC/PC: RS-485 Modbus or Profibus Local configuration link: RS-232 (configuration software and lead supplied)
Event logging	Up to 300 alarm, power, fault, system events are stored in Non-Volatile Memory
Panel indication	Channel number: 2-digit 7-segment Green LED Gas reading: 4-digit 7-segment Red LED Measurement units: % LEL, ppm, % Vol, Fire Power: Green LED Battery OK: Green LED Run/hold indication: Green LED Channel test mode: Flashing Amber LED System fault – integrity watchdog: Amber LED
Alarm indication	Audible – internal sounder: Piezo Visual – Alarm: Level 1 & 2, Red LED; Fault – Per channel, Amber LED; Inhibit – Per zone, Amber LED
Power	AC mains: 110/120V & 220/240Vac (switchable) 50-60hz 3.2A max DC: 20-30Vdc Battery back-ip: 2Ah internal
Approvals	Low voltage directive: EN61010-1 EMC: Directive 2014/30/EU: EN50270, FCC: CRF47 Part 15, ICES-003 ATEX: Ex II 2G D Zone 1, Zone 2, IECEx optional
Functional safety	Validated to IEC61508 (SIL1)