

VORTEX FP

Gas Detection Control Panel

Fireproof control panels ideal for use in hazardous areas.



Designed for when resilience matters most, the Vortex FP and Vortex FP Compact are ATEX certified Exd Flameproof gas detector control panels, ideal for use in zone 1 or zone 2 hazardous areas such as on offshore production platforms or refineries. Available in two sizes, there is a Vortex FP suitable for any space, however restrictive.

All day-to-day operations can be completed via push buttons on the front panel, removing the requirement for hot-work permits to complete everyday tasks. Instant indication of system status is provided by the fault and alarm LEDs on the front panel, with all relays monitored continuously.

Using Vortex PC software, customisation is easy and user-friendly, plus it uses industry standard Modbus RTU communication links, with an option to modify this to Profibus, making it compatible with a variety of control systems.

FEATURES

Simple to Use

- All day-to-day operations can be completed via push buttons on the front panel, removing the requirement for hot-work permits to complete everyday tasks
- Fault and alarm LEDs on the front panel provide instant indication of system status
- Alarm and channel settings can be adjusted from the front panel.

Highly Flexible

- Available in two sizes, including a compact format for use in areas where space is a limiting factor
- Uses Vortex PC software which allows easy customisation is incredibly user-friendly
- Uses industry standard Modbus RTU (or optionally Profibus) communications links, which is simple to integrate with PLC, DCS or SCADA control systems.

Robust and Reliable

- Water and dust resistant to IP66
- All relays are monitored continuously ensuring full functionality and compliance at all times.

SPECIFICATIONS

		VORTEX FP	VORTEX FP COMPACT
SIZE		440 x 640 x 332mm (17.3 x 25 x 13ins)	450 x 330 x 289mm (17.6 x 13 x 11.4ins)
WEIGHT		70Kgs (154lbs) approx.	37.5kgs (83lbs) approx.
ENCLOSURE MATERIAL		LM25 aluminium with polyester powder coating	
INGRESS PROTECTION		IP66	
CHANNELS		Up to 12 (1 to 3 4-way input modules)	
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 32 SPCO with bus extension module	Relay limitations: 1 or 2 input modules: 2 relay modules max. (16 relays) , 3 input modules: 1 relay module only (8 relays)
	Assignment – Common	Battery back-up not available	
	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)	
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	
	Visual – Fault	Per channel, Amber LED	
	Visual – Inhibit	Per zone, Amber LED	
POWER	AC mains	110Vac or 240Vac 3.2A max	85 - 264Vac 0.8A max
	DC	150W PSU 20 - 30Vdc	75W PSU 20 - 30Vdc
	Battery back-up	Battery back-up not available	
APPROVALS	Lowvoltage directive	EN61010-1	
	EMC	Directive 2014/30/EU: EN50270, FCC: CFR47 Part 15, IECES-003	
	ATEX	ATEX Ex II 2G D Zone 1, Zone 2, IECEx optional	
OPERATING TEMPERATURE		-10°C to +40°C (14°F to 104°F)	
HUMIDITY		0-95% RH non-condensing	
FUNCTIONAL SAFETY		Validated to IEC61508	



Australian Distributor

K. D. Fisher & Co. Pty Ltd ABN 27 007 879 647
 Head office 18 Benjamin Street St Marys SA
 5042 T +61 8 8277 3288 T 1300 533 474
 E kdf@kdfisher.com.au kdfisher.com.au



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For more information:

t: +44 (0)1235 557700
e: info@crowcon.com
w: www.crowcon.com

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K. D. Fisher & Co. Pty Ltd ABN 27 007 879 647
Head office 18 Benjamin Street St Marys SA
5042 T +61 8 8277 3288 T 1300 533 474
E kdf@kdfisher.com.au kdfisher.com.au

