Ribble Enviro

...everything gas detection

Data Sheet

HONEYWELL VERTEX™

Toxic Gas Monitoring System

High-level of continuous protection for monitoring multiple points

Honeywell Vertex™ delivers reliable performance and versatility with an improved cost of ownership, enhanced safety and operational efficiency. To help you protect people and assets while supporting minimization of downtime, the Vertex™ provides:

- **Authentic Chemcassette® technology for accuracy**
  The system detects highly toxic gases quickly and definitively — down to parts per billion (ppb) — as evidenced by a clear, easy-to-view stain on chemically treated tape. This technology, pioneered by Honeywell, delivers low-level gas detection you can count on.

- **Monitoring of more than 40 toxic gases**
  Start with as few as eight sampling points and add up to 72. Place each point up to 400 feet (120 meters) away for flexible reach.

- **Reduced total cost of ownership**
  Vertex provides a reduced total cost of ownership through automatic flow adjustments, which reduces the time required for servicing and maintenance.

- **Enhanced safety and operational efficiency**
  The built-in industrial-grade full suite of redundancy features advanced communications that mitigate the risk of system continuity issues and support continuous operation even iin the event of a system continuity issue, promoting enhanced safety and improved operational efficiency.

FEATURES & BENEFITS
STRAIGHTFORWARD MAINTENANCE TO REDUCE DOWNTIME:

RELIABLE
Chemcassette technology provides physical evidence of a gas event

System data backup. If main data acquisition PC encounters issues, analyzers continue to monitor, log data and alarm

SIMPLIFIED OUTPUT
Vertex offers Modbus TCP/IP: CAT5 shielded cable or equivalent (RJ45 connector)

EASY TO MAINTAIN
Simplified replacement of Chemcassettes and automated optics verification.

SECURITY
Windows 10 IoT Enterprise operating system to improve IT security.

EASY TO USE
Use the touchscreen to set customized reminders for maintenance tasks; clearly see which elements to service

DURABLE DESIGN
Steel door stands up to traffic, while a splash-proof cap protects the system from overhead liquid exposure

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VERTEX™ SPECIFICATION SHEET

OVERALL SYSTEM DIMENSION	
Size	76" x 24" x 34 1/2"
Weight – Full loaded condition	~1,000lbs (~456kg)
Weight – Empty rack	~725lbs (~330kg)

ANALYZER	
Size	22" x 13" x 6"
Weight	≤ 31lbs (14kg)

POWER REQUIREMENTS	
Operating voltage	230 VAC ± 10% single phase (under load) @ 50/60 Hz; 15 Amps maximum

POWER CONSUMPTION	
Normal condition	1.1k Watt
Maximum condition	≤ 1.4k Watt

DISPLAY & OUTPUT	
Visual	15.6" screen monitor with resistive touch interface Display gas reading, alarm & instrument status real-time base Event logging including maintenance/instrument fault and gas alarm Multiple searching option for the event LED indicator: Normal (Green), Alarm 1 (Red), Alarm 2 (Red), Fault (Yellow) Standard OPC interface
Digital communications	Optional Ethernet/CIP, DeviceNet, Profibus, Profinet, Modbus/TCP or ControlNet outputs available

CERTIFICATION AND SPECIFICATION	
EN 50270 and EN61010-1 UL/IEC 61010-1 RED, FCC for RFID	

PERFORMANCE	
Refer to product manual for complete gas list	

TRANSPORT SYSTEM	
Flow rate	1.5 LPM Nominal
Transport time	67 seconds for 300ft with thin wall tube (0.190"ID)
Sample line tubing	1/4 in. (6.35 mm) O.D. x 0.190in. (4.83 mm) (Thin wall)
Tubing length	Up to 400ft (122m) with thin wall
Exhaust line tubing	1/2 in. (12.7 mm) O.D. x 3/8 in.(9.5 mm) I.D. Teflon tubing
Exhaust length	Up to 50 ft. (15 m) maximum

OPERATING CONDITION	
Temperature	59°F to 95°F (15°C to 35°C)
Humidity	20-80% RH
Altitude	-1000 ft. (−305 m) to 6000 ft. (1829 m) above sea level

WIRING REQUIREMENT	
Power	Single phase power, Minimum 14 AWG
Digital	Modbus TCP/IP: CAT5 shielded cable or equivalent (RJ45 connector)

**THE
FUTURE
IS
WHAT
WE
MAKE IT**

Honeywell