

# 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 in 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

#### SECURITY

Windows 10 IoT Enterprise operating system to improve IT security.

#### SIMPLIFIED OUTPUT

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

#### EASY TO USE

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

#### EASY TO MAINTAIN

Simplified replacement of Chemcassettes and automated optics verification.

#### DURABLE DESIGN

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

# 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
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## 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)