VC4 RELIABLE AND ROBUST
GAS DETECTION

VC4 Gas Monitoring System

Honeywell

VC4 CONTINUOUS 4-POINT GAS MONITORING SYSTEM

The VC4 is based on colorimetric technology with an advanced modular design. Honeywell's VC4 represents the latest in reduced interference, easy maintenance, and low cost of ownership solution for the semiconductor, chemical, solar, and other industries.

KEY FEATURES

Accurate & Reliable

The VC4 offers parts per billion (ppb) level toxic gas detection with Honeywell's Chemcassette® technology which displays well-defined stains even at low concentrations. High-quality detection can reduce false alarms and system downtimes.

Easy to use

The VC4's 7" LED touchscreen provides fast and easy navigation for enhanced ease of use. The Human Machine Interface (HMI) was designed for quick and easy access to critical information. The VC4 has a built-in web server for remote view and control and a USB interface for data extraction.

Low Total Cost of Ownership

The VC4 supports long-life Chemcasettes, up to 180 days (about six months) on Hydrides, Ammonia, and Phosgene gases, reducing the touchpoints for each device. The design also provides easy Chemcasette replacement during service and maintenance.

VC4 FEATURES

1. LED Indicator for instrument status for ease of use

2. Easy to use HMI (Linux, touchscreen, keyboard)

3. Built-in webserver/web pages for easy remote access

4. Close Loop optics block (CLO) for improved detection

5. New VC4 Chemcassette for a shorter lead time

6. Modular design and easy access to parts for improved ease of maintenance and Chemcassette replacement

7. USB Interface (export data, configuration, upgrade software)

TECHNICAL SPECIFICATIONS

System Dimension	
Size	8.7" (H) x 17.8" (W) (22 x 45 x 43cm)
Weight	≤ 24.95kg (55 lbs)
Power Requirements	
Operating voltage	110+10%VAC @ 50/60Hz; 220+10%VAC @ 50/60Hz
Power Consumption	
	~3A @ 110V
	~2A @ 230V
Display and Outputs	
Display	7" wide screen monitor with capacitive touch interface. Display gas reading alarm and instrument status real-time. Provide real-time trend chart and gas event snapshot trend chart. Event logging including maintenance/instrument fault and gas alarm. Multiple searching options for the event. LED indicator: Normal (Green), Alarm 1 (Red), Alarm 2 (Red), Fault (Yellow)
Local alarm indication	Audible and visual
Fieldbus outputs	TCP/IP and RTU Modbus
Serial outputs (optional)	RS232, RS422, and RS485 (all configurable)
Relay outputs (optional)	Relay contacts (500mA minimum) 2A @ 120VAC, form C contacts. Programmable low and high levels, maintenance, watch dog, energized or de-energized, latching or nonlatching
Current loop outputs (per point) (optional)	4-20mA isolated (2-4mA range available for fault indicators)
Security	
	Role-based access control support HTTPS

Certification and Specification		
	EN50270; UL61010; NCC for RFID	
Performance		
	Refer to product manual for complete gas list	
Transport System		
Flow rate	2.8 LPM	
Sample line tubing	1/4 in (6.35 mm) O.D. x 3/16 in (4.83 mm) (Thin wall) Teflon tubing	
Tubing length	Up to 400 ft (120 m) with thin wall Teflon tubing	
Exhaust line tubing	1 Teflon tubing or Polypropylene tubing	
Exhaust length	Up to 50 ft (15 m) maximum. Longer distances possible with larger ID exhaust tubing.	
Operating Conditions		
Temperature	10° C to 40° C (50° F to 140° F)	
Humidity	20-80% RH	
Wiring Requirement		
Power	Single phase power, minimum 14 AWG	
Outputs	Modbus TCP/IP: CAT5 shielded cable or equivalent (RJ45 connector) Modbus RTU: 2-wire stranded, shielded cable or equivalent (24-14 AWG) Serial outputs: DB9 connector Relay output: 24-14 AWG Current output: 24-14 AWG	

For more information

Honeywell Sensing & Safety Technologies services its customers through a worldwide network of sales offices and distributors. For application assistance, current specifications, pricing, or the nearest Authorized Distributor, visit sps.honeywell.com/ast or call:

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Scan the QR Code to learn more about the Honeywell VC4 Continuous 4-point Gas Monitoring System

⚠**WARNING**
IMPROPER INSTALLATION

- Consult with local safety agencies and their requirements when designing a machine control link, interface and all control elements that affect safety.
- Strictly adhere to all installation instructions.

Failure to comply with these instructions could result in death or serious injury.

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THE FUTURE IS WHAT WE MAKE IT

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