

Harsh Area VOC Monitoring System

Sample conditioning system for VOC, Toxic, and combustible gases

A custom designed single or multiple sensor system designed to monitor gas & vapor from extreme environments containing temperature, humidity, particulate, or pressure challenges.

A powerful sample pump pulls samples from up to 50 meters away which is then filtered and conditioned before being passed across one or multiple detectors. Each detector shares a common calibration and compressed air inlet for aspirated flow. The system is fault tolerant removing the need for expensive downtime and maintenance.

System integrity is maintained at all times using flow fail monitoring devices which provide dry contacts that activate if the sample line becomes blocked, damaged, removed or interrupted. The panel is compatible with a wide variety of specialized sensor technologies and ranges matched to your specific application requirements.

Transmitters have 4-20 mA analog signal or digital MODBUS output for direct connection to the site DCS, PLC or control system. If needed, a dedicated Gas Detection Control system can be provided along with local alarms and online outputs with a wide range of dry contacts, making the system sophisticated and user friendly.

Integral high capacity sample filters are included to remove liquids, dust and dirt. Optional backup battery is capable of powering the system during power outages.



- Continuous VOC/Toxic/LEL monitoring in hazardous and non-hazardous area locations
- Reduced sensor replacement & maintenance costs due to moisture & contamination control
- Proven design used for sampling from sewers, digesters, drains, confined spaces, tank cleaning, exhaust ducts, etc
- Faster response time with sample flow-through design powered by internal diaphragm pump
- Humidity removal ensures accurate sensor readings even in highly humid environments

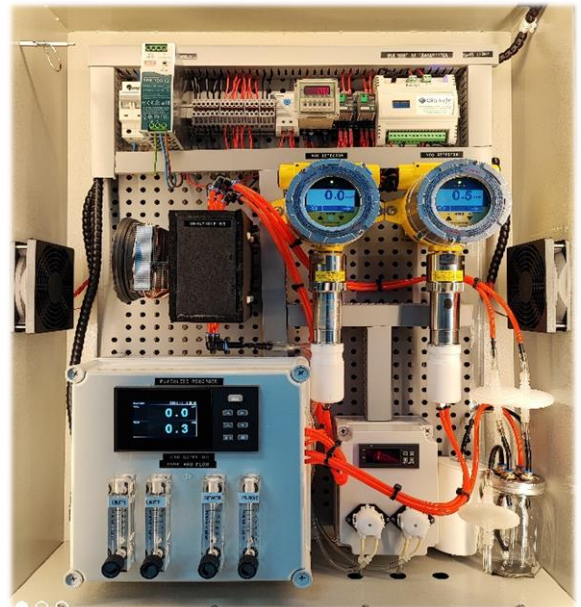
“Protection Through Detection”



Specifications

Gas sensors	One to four gas sensor options VOC, Toxic, CH4 HC's, 0-100% IR LEL, CO2, and O2
Sensor type	PID, Catalytic, Electrochemical, IR
Maximum sample line length	50 meter (6mm OD. tube)
Operating temperature	5 – 45 C
Power supply	Solar, 100 – 220 VAC or 24VDC
Sample flow across the detector head	Adjustable 0.3 - 1 LPM
Display	Local display/Panel indicators
Outputs	Fault alarms, 4-20 mA, MODBUS, dry contact, optional SMS alert
Local alarm	Optional audio/visual local alarm
Cloud based data logging/trend analysis, email alerts, remote viewing	Optional Data Link for secure data transfer. Compatible with browser and handpohone app
Filtration	In line coalescing filters c/w peristaltic drain pump
Sample conditioning	Humidity, temperature, particulate, pressure & cross interfering gases
Humidity control	TEC condenser to regulate sample RH
Sample capture for liquid or gas	Triggered sample capture for future analysis to assist with due diligence, reports or prosecution
Warranty	1 Year on non-consumable parts
System enclosure	Weatherproof IP rated enclosure for outside locations or as required for site secure installations.

Note – Suggested specifications subject to change without notice.



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