GasVac® Cool

Single line or network refrigerant gas sampling unit

Specification Sheet C1981Av2
Doc. No. 330D5C

- Single or multi-point (MPS) monitoring
  1 to 10 sample intake modules
- Hazardous area zone 1 and 2 monitoring
- Network coverage of lighter and heavier than air gases
- Single or dual sensors covering dissimilar gas ranges or types
- No valves – no cycle time delays
- Ease of installation with low operating costs
- No cabling requirement
- 3 alarm levels & relays
- Traffic light status display
- 4~20mA analogue output
- Data logging
- Line blockage and pump fail monitor
- Alarm delay – option
- Enables compliance with BS EN378, CSA B52, ASHRAE 15
- 1~6 GDS addressable safe/hazardous area fixed sensors direct to the GasVac® Cool unit

Operation

The GasVac® Cool system is specifically designed for environments where traditional gas sensors are impractical due to installation challenges or where there is a presence of various gases, both lighter and heavier than air. This system is ideal for applications such as:

Machinery rooms: Areas with complex equipment layouts where gas detection is crucial but challenging.

Walk-in freezers and cold rooms: Locations where low temperatures could affect conventional gas sensor performance.

Industrial cold storage: Large storage facilities requiring reliable gas monitoring due to temperature variations and potential gas leaks.

Chiller rooms: Environments where different gas types may need continuous monitoring for safety and efficiency.

The GasVac® Cool system is delivered pre-programmed and pre-calibrated, facilitating immediate operation. It only requires a power connection and the attachment of a single sample line or an optional patented micropore intake module network to begin functioning. Furthermore, GasVac units are compatible with the GDS Combi addressable monitoring system, which provides advanced monitoring features, enhancing safety and operational oversight in complex environments.

The full range of GDS conventional addressable safe/hazardous area gas sensors may be added directly to the Cool unit.

Indicators

Two line alphanumeric back lit display

System Normal – green/blue display

Alarm 1 (Low Alarm) text
Red screen flashing 1 sec + sounder

Alarm 2 (High Alarm) text
Red screen flashing 0.5 sec + sounder

Alarm 3 (Overrange Alarm) text
Red screen flashing 0.25 sec + sounder

Fault
Amber screen flashing + sounder
All steady on accept

Audible Alarm

1, 2, 3 and Fault Alarms – mutable
68dB @ 1m

Power Supply

Mains 100~240vAC 50/60 Hz
24v nominal 18 to 30vDC
70 watts – full alarm

Sensor

1~10 Intake modules
1~6 Fixed addressable sensors
Non-dispersive Infrared (NDIR) dual beam technology
Wide range of sensor types available

Outputs

1, 2, 3 and fault alarm relays – SPCO normally de-energised – energised option, latched or unlatched

All contacts rated 3A – 230v AC

Analogue	4-20mA
CANbus	GDS Combi system data sheet C1819
Logging	Intervals – variable time Roll over/stop Storage – 2,880 readings
Requires	Micro USB lead PC or laptop Hyperterminal – *downloaded from GDS website*

Flow/Pump Monitor

Alarm relay – SPCO N/D - N/E option
Contacts 3A – 230vAC

Alarm Settings

Digital setting
Delay to alarms 0~255s
Relay off delays 0~255s

Sample Tube

6mm OD 4mm ID
Standard draw pump
Maximum length single or MPS network 150m
Specials – unlimited *(see Micropore Sampling data sheet C1593)*

Accessory Options

Weatherproof overhousing IP66
Sample line condensate auto drain

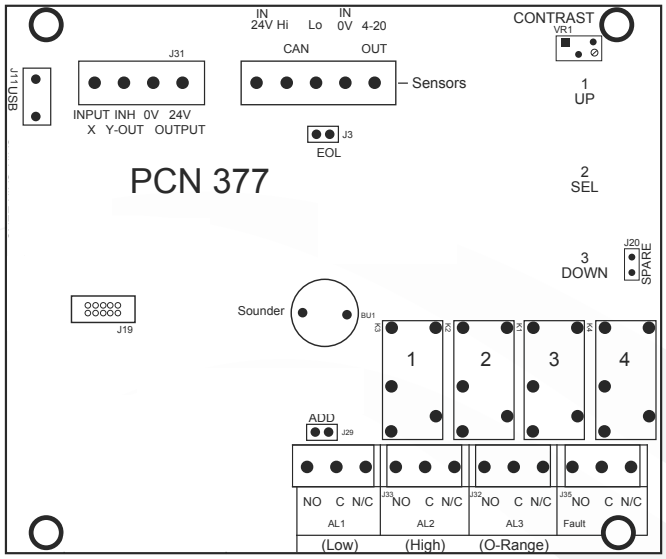
Miscellaneous

1~6 addressable sensors
Pass code entry
Operating temperature –15 to +50˚C (alarm panel)
–40 to +60˚C (intake modules)
Alarm relay inhibit during calibration
System function test
Weight 4.8 kg
Dimensions 385mm W | 280mm H | 130mm D
Protection IP64, IP66 over housing option
Cable entry – top, bottom, sides, rear
Document of Conformity C1943
EU patent (MPS system) 3059572

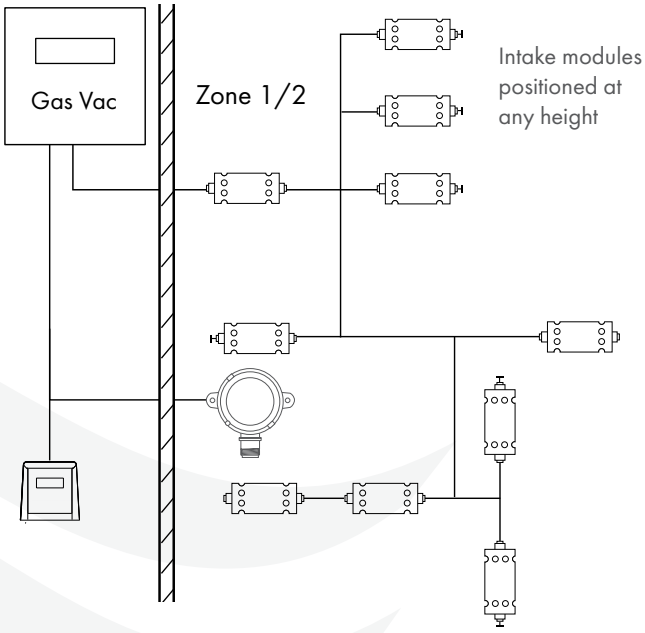
MPS Intake Module

Standard draw pump, maximum number 10, minimum number 2
Specials – unlimited *(see Micropore Sampling data sheet C1593)*
All weather – IP65
Operating temperature -40˚C to +60˚C
Orientation – any
Size – 100mm L x 32mm D
Design Reg. 6009030

Control Unit PCB



Typical Micropore Sampling Network (MPS) System



ISO 9001
ISO 14001
ISO 45001
INTEGRATED MANAGEMENT

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