

GasVac® 311+

Single line or network gas sampling unit

- Single or multi-point (MPS) monitoring
1 to 10 sample intake modules
- 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
- 3 alarm levels & relays
- Traffic light status display
- 4~20mA analogue output
- Data logging
- Line blockage and pump fail monitor
- Alarm delay – option
- Optional hazardous area monitoring
- 1~6 GDS addressable safe/hazardous area fixed sensors direct to the 311+



Operation

The GasVac® 311+ system is designed to continuously monitor gas levels in situations where the positioning of conventional gas sensors may not be practical or a high target area coverage is required.

A wide range of sensors can be fitted to suit customer requirements which include infra red, electrochemical, catalytic and other specialist sensors.

The system is supplied factory programmed and pre-calibrated to enable immediate operation by connection of a power supply and attachment of a single sample line or optional patented micropore intake module network.

GasVac units may be connected to the GDS Combi addressable monitoring system, offering the features of our most advanced system. The full range of GDS conventional addressable safe/hazardous area gas sensors may be added directly to the 311+ unit.

Indicators

Two line alphanumeric backlit 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

Sensors

1~10 Intake modules
1~6 fixed addressable sensors

Measuring Range

Combustible Gas – LEL, % Vol
Toxic Gas – ppm/ppb
Oxygen – % vol – Depletion/Enrichment
Any 4~20mA source input signal

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

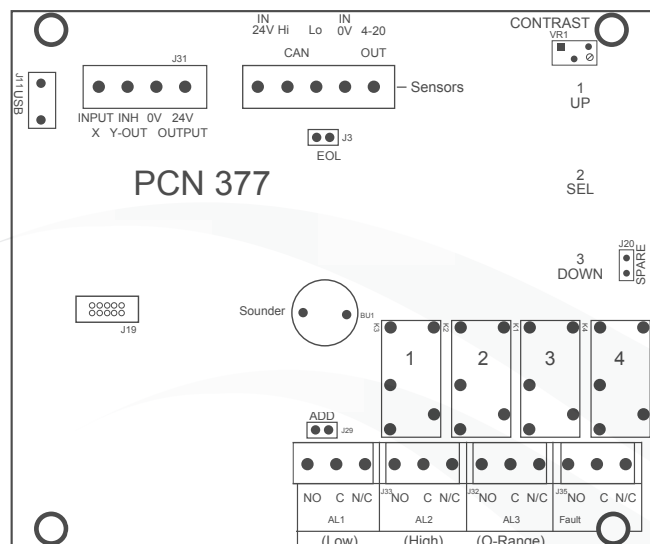
Alarm Settings

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)

Control Unit PCB



Accessory Options

Weatherproof overhousing IP66
Sample line condensate auto drain

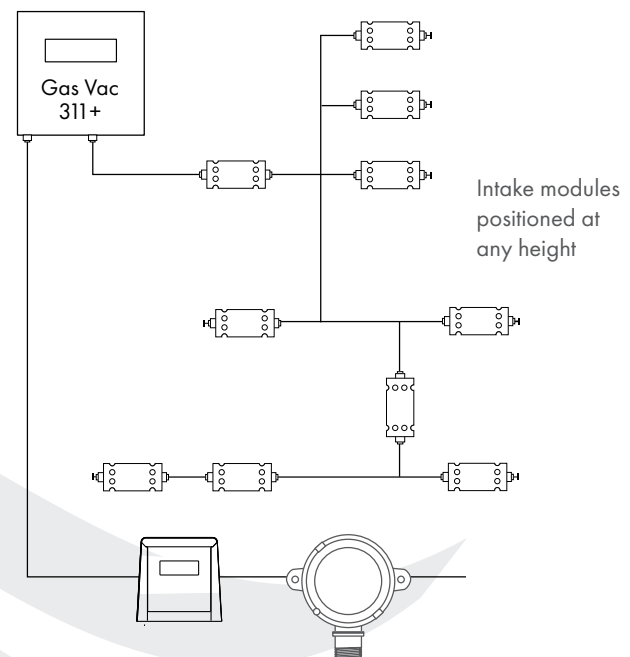
Miscellaneous

1~6 addressable sensors
Passcode 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 315mm W | 265mm H | 95mm 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

Typical Micropore Sampling Network (MPS) System



This document is not contractual and the equipment specification may be modified at any time without prior notice.

