

ASPIRATED SENSOR UNIT

ASU-1 & ASU-2

SPECIFICATION

Pump/Flow Monitor Unit	ASU-1	ASU-2
Input	24v DC \pm 20% 70mA	24v DC \pm 20% 170mA
Flow Rate – no load	0.4~0.8 litres/min	2~3 litres/min
Maximum Vacuum	-250 mbar	-800 mbar
Pump Operation	Vibrating Armature	DC Brushless
Continuous Running (Clean Air)	Pump Motor – 6 years expected Diaphragm – 3 years in air	
Flow Fail Monitor	Green LED – normal operation Red LED – pipe blockage / Amber LED – pump fail Sounder – not less than 85dB @ 30cm	
Outputs	Relay S.P.C.O 4Amp @ 24vDC – NE/ND Selectable (FF/PF) output 5/15v DC Factory set – open drain	
Sample Line	Max Length – 50m 6mm OD 4mm ID Material – nylon, polypropylene, PTFE	Max Length – 100m 6mm OD 4mm ID Material – nylon, polypropylene, PTFE
Couplings	In/Out – push fit – barbed, enclosure base/rear	
Dimensions	123mm L x 48mm W x 50mm H	123mm L x 48mm W x 80mm H

Sensor Transmitter

Type	Addressable (Network) / Direct
Gases	Flammable Oxygen Toxic Refrigerants
Outputs	4~20mA (Direct - 3 Wire) CANbus (Addressable) Others – Contact GDS Data logging – intervals – variable time Roll over / stop storage 2,880 readings
Sensor	Electrochemical Infrared Semiconductor Pellistor – Catalytic PID
Technical Sheets	Toxic/Oxygen C1882 Flammable C1883

Enclosure

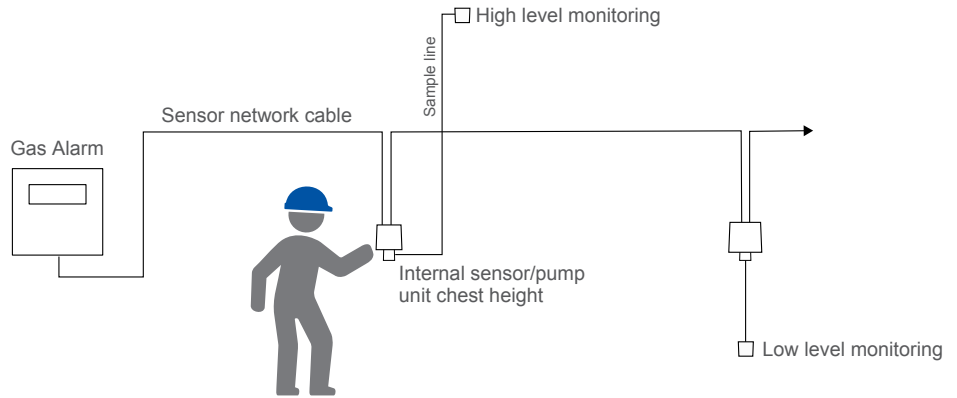
Type	30J Safe area use only	
Protection	IP64	
Operating Temperature	-15°C to 55°C	
Relative Humidity	0-95 non condensing	
Dimensions	H – 145 W – 147 D – 90 mm	
Material	ABS Flame Retardant FR40 Lid Screws M4SS	
Finish	Signal White RAL 9003	
Weight – Finished Product	520gms	710gms
Entries – cable	Rear 5 x 20mm knock outs, Base 2 x 20mm knock outs	

Mounting/Position

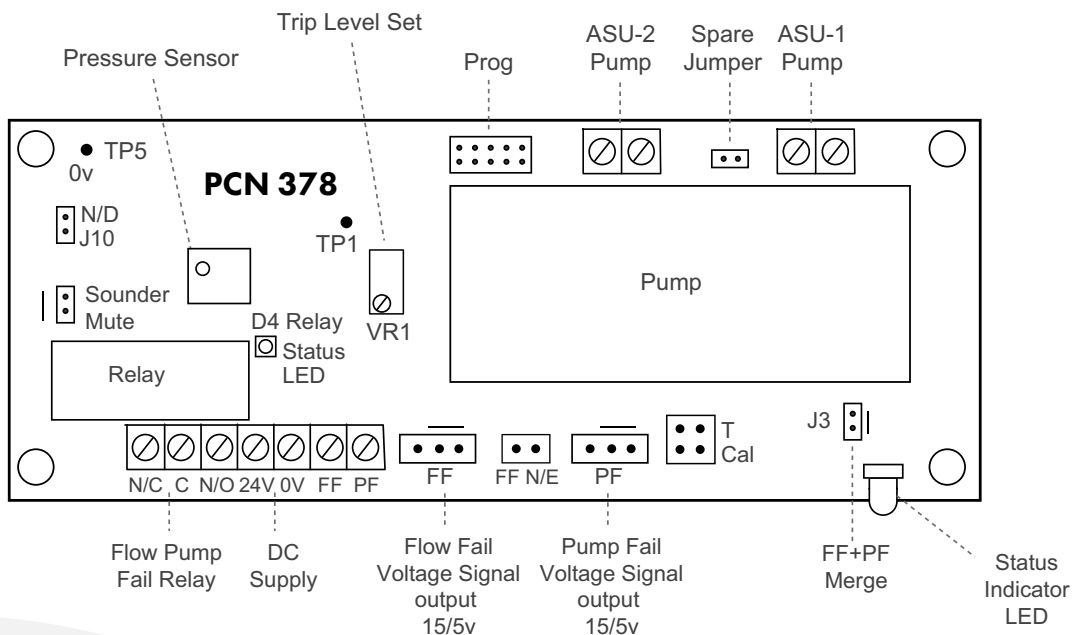
The pump sensor unit should be mounted at chest height with the sample line travelling to the chosen target area at either maximum height for lighter than air gases or minimum low level (100mm) for heavier than air gases. A filter should be attached to the target area pipe for protection against particulate contamination.

[Technical Document C1892](#) GasVac® Sample Systems sample and test gas line installation

007-105	Twin Line Filter
008-444	Single Line Filter
007-106	Box Filter
99-000	Universal Fitting
Specification Sheet G653	



Flow Monitor



Set Up

Flow fail trip point set:

ASU-1 Adjust potentiometer VR1 for 0.5v measured across test points TP5 (0v) and TP1

ASU-2 Adjust potentiometer VR1 for 2.45v measured across test points TP5 (0v) and TP1

IMPORTANT To remove tubing do not pull, lever only.

