ASVP - Air Sampling Vacuum Pump

Intrinsically Safe Vacuum Pump to Assist in Dewpoint/ppm Sampling of Ambient Air

ASVP

Features and Benefits

- Intrinsically Safe for Hazardous areas
- Calibrated to International Standards
- Motion Sensing
- IP65 (NEMA 4X)
- Long rechargeable battery life and fast recharge docking station included
- Easy to read colour display
- Use in conjuction with SADPmini2 and SADPmini2-Ex dewpoint meters

Fast Charger Docking Station Included

Low Cost - Fast Reliable Accurate Measurements - Easy Install and Operation

Designed with the operator in mind for reliable and fast accurate measurements, this Air Sampling Vacuum Pump is extremely easy to install and operate with the SADPmini2 range of dewpoint meters.

The **ASVP** is primarily used to measure dewpoint (and ppm) of ambient air of for example dry/clean rooms, environmental chambers, glove boxes etc.

With excellent performance ratings and rugged build, the **ASVP** is built to last and is also intrinsically safe for use in hazardous and flammable atmospheres and areas when used with the SADPmini2-Ex dewpoint meters from Alpha Moisture Systems.

ASVP - Specifications

Ex MARKINGS
Ex ia I Ma
Ex ia IIC T4 Ga
Ex ia IIIC T135°C Da (Ta = 20°C to +45°C)**FLOW PERFORMANCE**

FLOW PERFORMANCE -	
Flow Range ml/min:	1000-5000
Low Flow Range ml/min:	5-500 (requires an adaptor)
Flow Control:	< ± 5% at calibrated point
Pulsation:	<10% @ 21 l/min
Fault Detector:	Auto Restart
Physical -	
Dimensions:	122 x 37 x 102mm (4.4 x 1.5 x 4.0”)
Weight including boot	490g (17oz)
Environmental	
Temperature:	Operation 0 to 45°C, Storage -10 to 50°C
Humidity:	30-95% RH (non-condensing)
Barometric Pressure:	Auto-Correcting

Electrical	
Battery Type:	Li-ion with level indicator
Chargering:	Single way
Charge Time:	Typically <6hrs

Principal of Operation

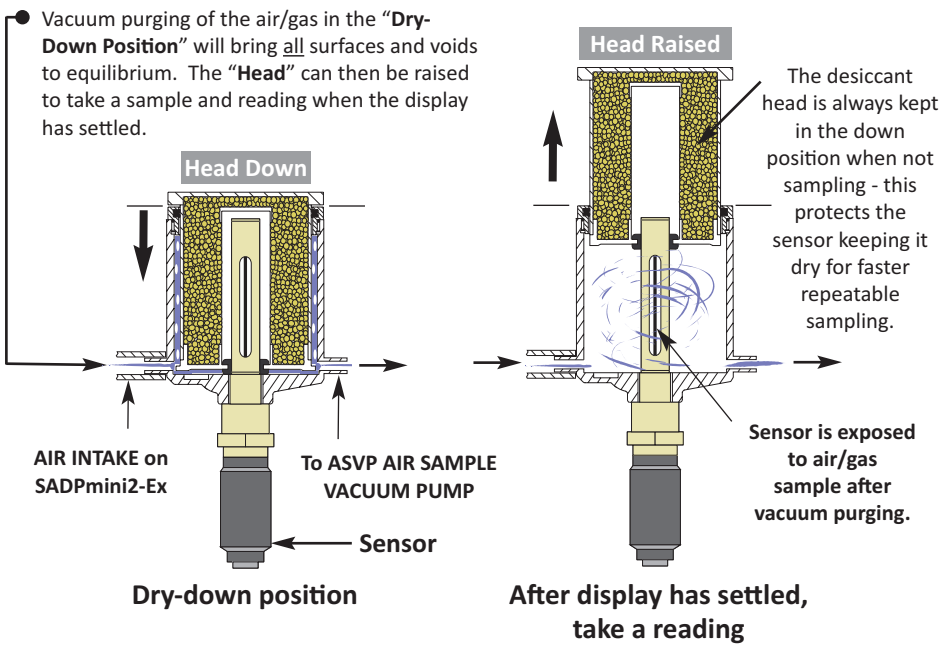
The sample pipe supplied is connected from the **ASVP** (Air Sample Vacuum Pump) to the “Sample Outlet” fir-tree connection on the **SADPmini2-Ex Dewpoint Meter**, a further piece of sample pipe is then fitted to the “Air Intake” connection of the SADPmini2-Ex, when both the SADPmini2-Ex and the ASVP are switched on, the desiccant head is then raised exposing the sensor to the sample being collected. A reading can then be taken of the ambient air after the display has settled, usually with in a few minutes - See below.

Desiccant Dry Down Technology on the SADPmini2-Ex Dewpoint Meter

The Desiccant Head Assembly

Keeping the sensor dry (Head down) between tests ensures that the **SADPmini2-Ex** is always ready to carry out rapid spot checks. The unique design of the Desiccant Head achieves this by surrounding the sensor with desiccant before the head is raised for sampling.

The chamber is also designed so that the void space and chamber wall surfaces are purged (or vacummed) with sample air/gas, before exposure of the sensor, so giving faster, more accurate and reliable results.



Application Examples

- Intrinsically safe. Designed specifically to be used in potentially explosive zones and areas when used in conjuction with the SADPmini2-Ex and SADPmini-Ex dewpoint meters.
- Dry or clean room ambient air sampling
- Glove box sampling
- Controlled atmosphere environments
- Environmental chambers
- Product drying
- Cool stores

How to Order

All **Air Sampling Vacuum Pumps** comes with 1m sample tube, single channel mains/USB charger docking station, certificate of calibration and conformity, user manual, protective rubber overcoat.
The SADPmini2-Ex is sold seperately - see datasheet 2493 for more information.

1 ASVP - Air Sampling Vacuum Pump

Order: ASVP

Quantity is 1 unit

For more information or technical help, please contact your local distributor.

Authorized Distributor Information

Corrosive Gases: The Sensor should not be exposed to corrosive gases (or corrosive contaminants in the gas sample) as these can chemically attack the sensor, impairing calibration accuracy and/or damaging it beyond economic repair. Examples of such gases are mercury (Hg), ammonia (NH_3), chlorine (Cl_2) etc. Strong oxidising agents such as ozone (O_3) should also be prevented from coming into contact with the sensor.

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