Alpha Moisture Systems Model SADPmini2 / SADPmini2-Ex Dewpoint Hygrometer Quick Start Guide



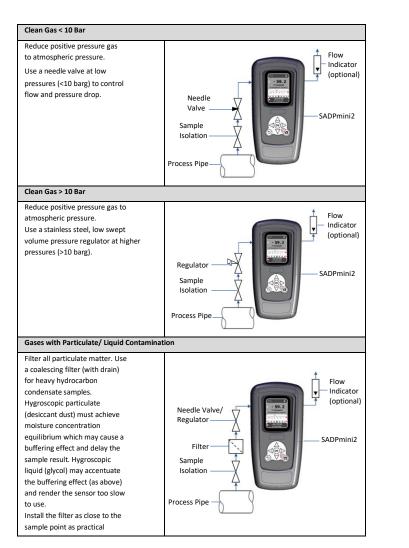
Alpha Moisture Systems, Alpha House, 96 City Road, Bradford, West Yorkshire, BD8 8ES, United Kingdom

Tel: +44 (0) 1274 733100

Email: info@amsystems.co.uk Website: amsystems.co.uk

2359 SADPmini2 Quick Start Guide – Issue 3

© Alpha Moisture Systems 2023



- Install the sample piping system and equipment as per the required installation configuration. NOTE: The SADPmini2 is not connected to the inlet piping system at this stage.
- Open the sample Isolation Valve and adjust the needle valve/ regulator to allow a flow of 5-15 litres per minute to atmosphere through to sample pipe.
- 3. Allow the gas to flow through the sample pipe for 2 minutes to purge the system.
- After ensuring that the sample gas is clean and dry connect the sample pipe to the instrument.
   NOTE: The orientation of the ports is not important.
- When the sample flow is low or very dry gas is being measured connect a >20 cm pipe to the outlet port to prevent back diffusion.
- 6. Allow the gas to flow through the SADPmini2 for two minutes.
- 7. Press the power button on the SADPmini2 and ensure that the sensor is 'dry'.
- Block the instrument outlet, e.g. cover with a finger and allow the Desiccant Head to extend fully.
   NOTE: Do not lift the Desiccant Head manually as this will draw ambient air into the sample chamber and produce a false reading.
- 9. Unblock the outlet and allow the gas to flow through the sensor.
- 10. The displayed reading will rise until the sensor is in equilibrium with the sample gas.
- 11. When the displayed reading has settled record the final reading.
- When completed manually depress the Desiccant Head fully.
   NOTE: It is important to make sure the Desiccant Head is depressed fully when the equipment is not in use to prevent the sensor and desiccant material becoming saturated.
- 13. Close the sample Isolation Valve.

小

- 14. Press and hold the power button for two seconds to switch off the SADPmini2.
- 15. Disconnect the pipework from the SADPmini2.

## DO NOT

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<sub>3</sub>), chlorine (Cl<sub>2</sub>) etc. Strong oxidising agents such as ozone (O<sub>3</sub>) should also be prevented from coming into contact with the sensor.

## DO NOT Do not allow the pressure in the instrument to exceed 0.3 barg/ 4 psi

WARNING
Do not exceed a flow rate
of 20 litres per minute

Navigation Keys allow the user to access and change the following:

- Time and Date settings
- International settings
- Dewpoint and concentration units
- Power saving options
- See the user manual for details