Model SADPmini2

New Generation Hand Held Dewpoint Meter

Rugged, light weight IP66 construction makes the SADPmini2 the most reliable dewpoint hygrometer available for rapid spot checks of dewpoint or trace moisture content in most gases and compressed air. The ultra-high capacitance sensor gives unsurpassed sensitivity, speed of response, repeatability and stability.

- Fast Repeatable Measurements
- LCD Colour Screen Real Time Graphics
- PC/Laptop User Software Included

Reduced volume of the redesigned stainless steel desiccant head gives rapid spot check measurements of moisture in gases and dry compressed air.

The unique innovative keypad design allows quick, intuitive, selection of the versatile features incorporated in the instrument and modification of all set up choices. The full colour LCD display shows the measurement in two, independently selectable, units simultaneously, together with a linear analogue scale for the main units. A single button press changes the display to a real time graph of the readings in the main units.



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O - Optional

Connection to a PC/Laptop via USB or Bluetooth also enables the user to modify and save the set up and save details via the PC. The optional logging package adds Bluetooth communication as well as very powerful logging and graphing capabilities. A mobile app is available for display of readings on smartphone or tablet.

KEY FEATURES:

- Full colour graphical display showing multiple units simultaneously.
- Desiccant Dry-Down Chamber for faster response by keeping sensor dry between tests.
- AutoCal Span Correction, for optimum accuracy between laboratory calibrations.
- Measurement units selectable in °C or °F dew point, ppm(v), ppm(w), mg/m³ or lb/MMSCF.
- User selectable display in choice of 10 languages: English, French, German, Spanish, Italian, Portuguese, Russian, Chinese, Japanese & Korean.
- Integral pressure calculator to display pressure dewpoints.
- Easy to use, with icons, intuitive control and latest user interface.
- Compact ergonomic design with a strong, durable and rugged body.
- Rechargeable batteries, allowing in excess of 150 hours use in continuous operation.
- USB connectivity for charging, configuration & data upload/download to pc or laptop.

- SD micro-card installed for data and settings backup, user manual retrieval and calibration history.
- User ability to update latest firmware from factory.
- Includes Certificate of Test & Calibration, referenced to National & International Standards NPL/NIST.

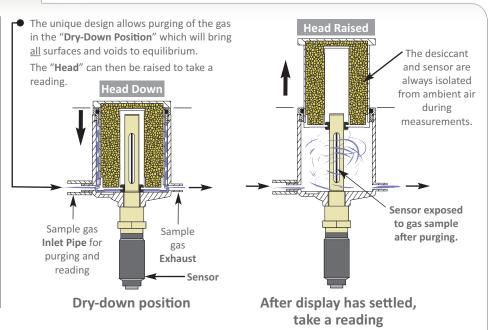
Additional Features With Logging Option

- Flexible programming for Data Logging with capacity in excess of 300,000 values.
- Real time logging/graphing of results with Quick Log and Snapshot features.
- Wireless Bluetooth & USB connectivity for configuration & data upload/download to pc or laptop.
- View display screen on smart phone, or tablet, via mobile App.
- Wirelessly print results to dedicated Bluetooth printer.

Desiccant Dry Down Technology

The Desiccant Head Assembly

Keeping the sensor dry between tests ensures that the SADPmini2 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. At no time is the sensor allowed to come into contact with ambient air. The chamber is also designed so that the void space and chamber wall surfaces are purged with sample gas, before exposure of the sensor, so giving faster, more accurate and reliable results.



Specifications

Sensor

Sensor type Ultra-high capacitance aluminium oxide. Ranges -110°C to -20°C (-166°F to -4°F) dewpoint, Silver -100°C to 0°C (-148°F to +32°F) dewpoint, Purple -80°C to +20°C (-112°F to +68°F) dewpoint, Blue Calibration Supplied with a Certificate of Test and Calibration traceable to NPL/NIST. Accuracy Better than ±2°C dewpoint (±3.6°F) Repeatability Better than ±0.3°C dewpoint (±0.54°F) AutoCal Span check and correction carried out by following simple on screen instructions. Temperature coefficient Temperature compensated for operating range. Typical sensor response times Dry to Wet: -110°C to -20°C dewpoint, <20 secs Wet to Dry: -10°C to -60°C dewpoint <180 secs Sample flow Flow independent, recommended 5 to 10 lt/min, max 20 lt/min. Sensor life Typically 7-10 years, dependant on application. Pressure dewpoints Integral calculator for display of dewpoints at pressure for both "ideal" gases and natural gas. Electrical Electromagnetic compatibility Conforms to EMC Directive 89/336/EEC, amended 95/31/EEC Display 3.5 inch full colour LCD graphical display with backlight. **Power supply** Rechargeable Li-ion battery. Charges from USB and universal mains charger supplied. Battery life In excess of 150 hours of continuous use from full charge.

Time to full charge Empty to full, approx. 14 hours. Warm up time 2 seconds Micro SD card Used as a data log backup. Also contains User Tool software and pdf of Operating Manual. Mechanical

Alpha Moisture Systems Model SADPmini2

Weight

 1.4 kg (3.1 lb)

 Dimensions

 215 x 108 x 124 mm (8.47 x 4.25 x 4.88 inches)

 Ingress protection

 IP66/NEMA 4X

 Operating pressure

 Atmospheric pressure.

 Operating temperature (ambient)

 -20°C to +50°C (14°F to +122°F)

 Operating humidity (ambient)

 Max. 95% non-condensing

 Storage temperature and humidity

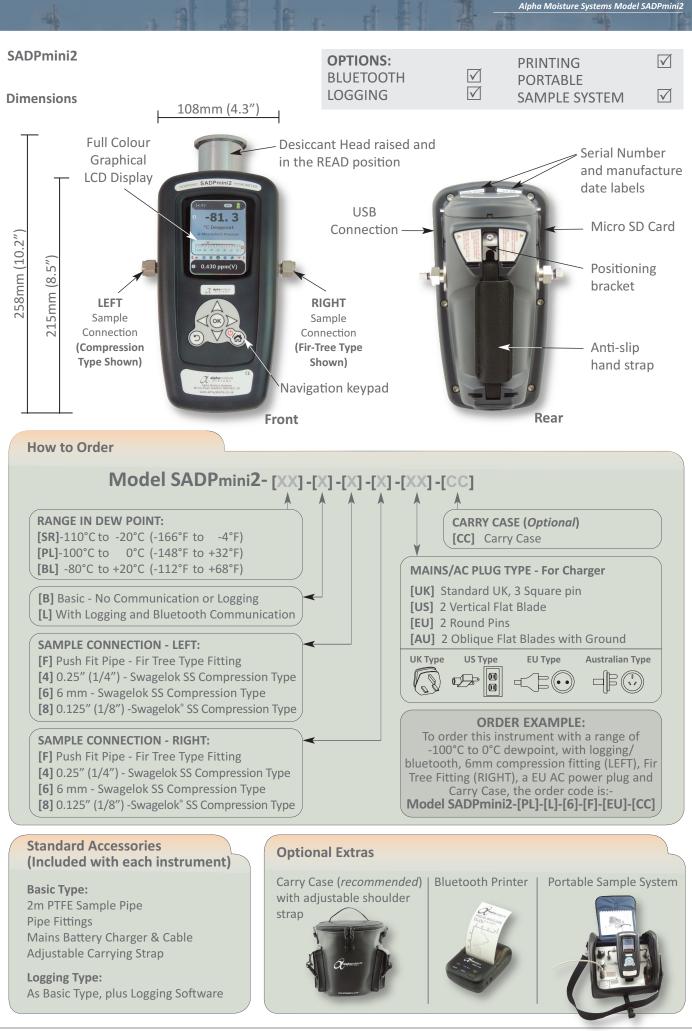
 -20°C to +50°C (-4°F to +122°F) Max. 95% non-condensing

 Desiccant

 Field replaceable.

Warranty 24 months faulty workmanship and materials. Logging (Optional Extra)

Integral data storage Up to 300,000 date and time stamped readings Stored in up to 20 user definable folders. Logging frequency User definable from 5 seconds to 1 hour. Data display Graphical and numerical Real time logging Can log directly to PC when connected via USB or Bluetooth. Bluetooth Bluetooth connectivity provided with logging package.



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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 (NH₃), chlorine (Cl₂) etc. Strong oxidising agents such as ozone (O₃) should also be prevented from coming into contact with the sensor.

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