

Model SADPmini2

New Generation Hand Held Dewpoint Meter

Rugged, lightweight NEMA4X (IP66) construction, makes SADPmini2 the most reliable portable dewpoint hygrometer available, for rapid spot checking of dewpoint or trace moisture content in gases and dry compressed air. The ultra-high capacitance sensor gives unsurpassed sensitivity, speed of response, repeatability and stability.

- **Fast Repeatable Measurements**
- **LCD Color 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 color 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.



- USB ●
- BLUETOOTH ○
- LOGGING ○
- SD CARD ●
- LI-ION CELL ●
- CALCULATOR APP ○
- 2 YEAR WARRANTY ●

○ - Optional Extra

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 cell phone app is available for display of readings on smartphone or tablet.

KEY FEATURES:

- Full color 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 °F or °C 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.
- 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.

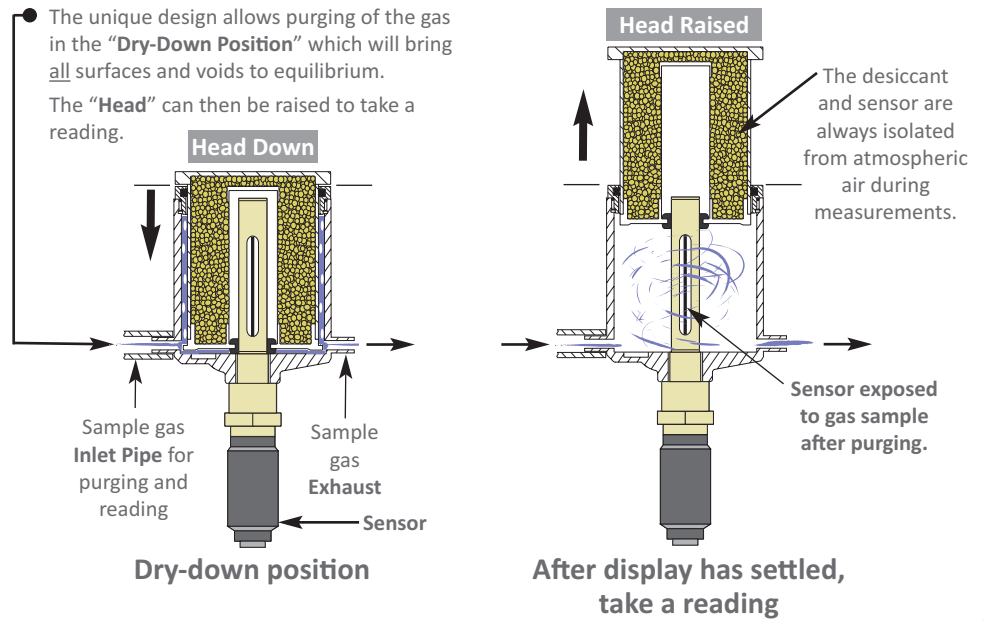
Additional Features With Logging Option

- 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 smartphone, or tablet, via Cellphone 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

-166°F to -4°F (-110°C to -20°C) dewpoint, Silver
 -148°F to +32°F (-100°C to 0°C) dewpoint, Purple
 -112°F to +20°F (-80°C to +20°C) dewpoint, Blue

Calibration

Supplied with a Certificate of Test and Calibration traceable to NPL/NIST.

Accuracy

Better than $\pm 3.6^\circ\text{F}$ ($\pm 2^\circ\text{C}$ dewpoint)

Repeatability

Better than $\pm 0.54^\circ\text{F}$ ($\pm 0.3^\circ\text{C}$ dewpoint)

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: -166°F to -4°F (-110°C to -20°C) dewpoint, <20 secs
 Wet to Dry: 14°F to -76°F (-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 10 years, dependant on application.

Sensor replacement

Field replaceable.

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.

Cell 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

Weight

3.1 lbs (1.4 kg)

Dimensions

8.47 x 4.25 x 4.88 inches (215 x 108 x 124 mm) with head closed.

Ingress protection

NEMA4X (IP66)

Operating pressure

Atmospheric pressure. 4 psig (0.3 barg)

Operating temperature (ambient)

14°F to +122°F (-20°C to +50°C)

Operating humidity (ambient)

Max. 95% non-condensing

Storage temperature and humidity

-4°F to +122°F (-20°C to +50°C) 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.

The SADPmini2

Dimensions



OPTIONS:			
BLUETOOTH	<input checked="" type="checkbox"/>	PRINTING	<input checked="" type="checkbox"/>
LOGGING	<input checked="" type="checkbox"/>	PORTABLE	<input checked="" type="checkbox"/>
		SAMPLE SYSTEM	<input checked="" type="checkbox"/>

How to Order

Model SADPmini2- [XX]-[X]-[F]-[X]-[XX]-[CC]

RANGE IN DEW POINT:

- SR: -166°F to -4°F (-110°C to -20°C)
- PL: -148°F to +32°F (-100°C to 0°C)
- BL: -112°F to +68°F (-80°C to +20°C)

L: Logging and Bluetooth Communication

F: Standard Supply - Fir Tree Fitting

- 4: 0.25" (1/4") - Swagelok SS Compression Type
- 6: 6 mm - Swagelok SS Compression Type
- 8: 0.125" (1/8") - Swagelok SS Compression Type

Fitting 1: Fir Tree Fitting



Fitting 2: Compression Fitting

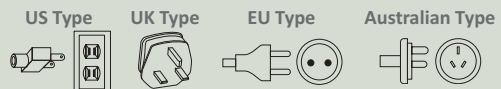


CARRY CASE (Recommended)

CC: Carry Case

MAINS/AC PLUG TYPE - For Charger = XX

- US: 2 Vertical Flat Blade
- UK: Standard UK, 3 Square pin
- EU: 2 Round Pins
- AU: 2 Oblique Flat Blades with Ground



ORDER EXAMPLE:

To order this instrument with a range of -112°F to +68°F dewpoint, with logging/bluetooth, 6mm compression fitting, a US AC power plug and Carry Case, the order code is: **Model SADPmini2 - BL - L - F - 6 - US - CC**

Standard Accessories (Included with each instrument)

Included:

2m PTFE sample tube, adjustable lanyard, micro USB to USB communication /charger cable, universal 110/240 Vac charging plug, 4GB micro SD card, illustrated operating manual.

Optional Extras

Carry Case (recommended) with adjustable shoulder strap



Bluetooth Printer



Portable Sample System



Notes

Authorized Distributor Information

Distributed
throughout
USA / Canada by:



www.deltainstrument.com

Tel: New Jersey 201-768-7200
or 866-628-8457 Toll Free
Fax New Jersey: 201-768-5020

Corporate Office: 148 Veterans Drive,
Northvale, NJ 07647

Stoney Creek, Ontario, Canada
(Sales Office)
Telephone: 905-643-3500

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.

2306 Model SADPmini2 160519-Iss4

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VAT Registration No. GB607207563
WEEE Producer Registration No. WEEE/EA0067TX

Product specification may be subject to change.

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