

AUTOMATIC DEWPOINT METER

A portable *Shaw Moisture Meters* hygrometer for rapid moisture checks or continuous use on flowing gas or air



SADP FEATURES

- **Measures moisture in air of gas samples with positive pressure**
- **Accurately calibrated and ready for use**
- **A guaranteed accuracy better than 1 ppm moisture in dry air**
- **Intrinsically safe as standard**
- **Reads dewpoint temperature in °C and °F and ppm moisture**
- **Fast, one second for 99% response, 'dry to wet'**
- **Sensor kept dry by desiccant in chamber**
- **Automatic dry down and calibration**
- **Complete with high quality padded carrying case and integral handle**

Easily portable, ready for spot checks or continuous use, this battery powered hygrometer indicates both dew point temperatures and water vapor to less than one part per million, on the large meter dial. As the reading is specific to water vapor, calibration is accurate for different gases. Accuracy is guaranteed to better than one part in a million of moisture in very dry air or gas.



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The self extending head allows up to 20 liters a minute flow for clearing the air supply pipe work without wetting the test chamber.

The heart of the meter is a Shaw molecular sieve moisture sensor with a gold internal filter and gold plated exterior. A one second response time from dry to wet (99%). Flow rate has no effect on the accurate measurement.

Meter accuracy traceable to NPL. Every meter is CE marked and is certified intrinsically safe to : BASEEFA 2001 Certificate No: baseefa03ATEX0065X. Factory Mutual approved safe for use on any gas but acetylene, anywhere but a coal mine. Meets NEMA 7, Class 1, Div. 1, groups B, C & D requirements.

SADP Specification

Accuracy:	± 1 ppm (± 3 °C DP Red Spot, ± 4 °C DP all others).
Type:	Body of enameled zinc plated steel with desiccant sensor chamber for rapid readings. Certified intrinsically safe for operation in hazardous areas
Dimensions / Weight:	8 inches x 9 inches x 11 inches high (13 inches with head extended). Weight: 9 pounds
Display:	Analogue indicating meter showing dewpoint (°C and °F) and ppm, with magnified range of 0-10 ppm on high resolutions versions (Gray and Red Spot only)
Sensor Connection:	Internal.
Power Supply:	9V DC internal; six type 'C' alkaline batteries
Sampling:	Pressure: atmospheric with flow rate of 5 - 10 liters/minute
Intrinsically Safe:	Standard feature: ATEX (European) baseefa03ATEX0065X FM, meets NEMA 7, Class 1, Div. 1, groups B, C & D requirements
Calibration:	Factory calibrated to certified international standards. Auto-cal on all except Blue Spot ranges

Sensor Type:	Sensor Range:
Purple : (P)	-100 / 0 °C ~ -148 / +32 °F DP, 0-6000 ppm (auto-cal)
Red : (R)	-80 / -20 °C ~ -112 / -4 °F DP, 0-1000 ppm (auto-cal)
Gray : (GY)	-80 / 0 °C ~ -112 / +32 °F DP, 0-6000 ppm (auto-cal)
Silver: (S)	-100 / -20 °C ~ -148 / -4 °F DP, 0 – 1000 ppm (auto-cal)
Yellow : (Y)	-60 / 0 °C ~ -76 / +32 °F DP, 10-6000 ppm (auto-cal)
Gold : (GO)	-50 / +20 °C ~ -58 / +68 °F DP, 40-23,000 ppm (manual-cal)
Blue : (BL)	-80 / +20 °C ~ -112 / +68 °F DP, 0-23,000 ppm (manual -cal)



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