

Dewpoint meter.



[analogue type].

SADP analogue Dewpoint meter.

SADP Portable hygrometer in stove enamelled zinc plated steel and alloy case, complete with padded carrying case. For table top or portable use with dessicant chamber for rapid readings.

ATEX: Intrinsically Safe Class I, Zone 0 Ex ia IIB + H2 T6.

FM: Intrinsically Safe Calls I, groups A,B,C,D T6.

Application:

* Prevent moisture buildup by measuring the moisture condensation temperature inside a ship's cargo hold

* Protect equipment by maintaining the precise environmental conditions required for sensitive manufacturing processes.

-사양(Specifications).

DEWPOINT SENSORS	
Sensor element	Shaw Ultra High Capacitance Aluminium Oxide Sesnor
Measuring range	P(Purple) : -100 to 0°C dewpoint, 0~6,000ppm(V). S(Silver): -100 to -20°C dewpoint, 0~1,000ppm(V). G(Grey) : -80 to 0°C dewpoint, 0~6,000ppm(V). R(Red): -80 to -20°C dewpoint, 0~1,000ppm(V). B(Blue): -80 to +20°C dewpoint, 0~23,000ppm(V).
Intrinsically Safety Certification	ATEX: ExII 1G Ex ia IIC T6 Ga ICEX: Ex ia IIC T6 Ga
AutoCal	Field calibration/span check facility. Activated and operated via potentiometer on the front of the instrument.
Factory Calibration	Supplied with certi. of calibration traceable to National Physical Laboratory(NPL).
Accuracy	± 3°C/± 4°C dewpoint NPL traceable -90°C to +20°C
Response time	Wet to dry: -20°C to -60°C - less than 120 secs. Dry to wet: -100°C to -20°C - less than 20 secs
Sample Flow rate	Flow independent but ideally 2 to 5 liters per minute. Max 20 liters/min.
ELECTRICAL	
Electromagnetic	Immunity: complies with EN 61000-6-1:2001
Compatibility(EMC)	Emissions: complies with EN 61000-6-3:2000
Warm up time	5 seconds
Display	Analogue : 120mm Taut Band indicating meter showing dewpoint and ppm with amplified range of 0~10ppm on TR versions.
Power supply	9V DC - six C type battery(included)
Battery life	In excess of 150 hours continuous operation.

Resolution	0.1°C dewpoint or 0.1ppm(v)
Repeatability	Better than $\pm 0.5^{\circ}\text{C}$ dewpoint.
MECHANICAL	
Dimension	overall dimensions: 200mmW x 225mmD x 278mmH. 328mm at head up.
Weight	4.5kg
Operating pressure	Atmospheric to 0.5bar
Operating humidity	95%RH no condensing.
Operating temp.	-20°C to +40°C
Storage temp.	-20°C to +40°C
Sensor protection	316 sintered stainless steel filter - 50 micron.
Weatherproof	IP66/NEMA 4X
Connections	Two Fir Tree type on either side of desiccant chamber.

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