

Dewpoint meter.



[SDH mini Dewpoint meter].

SDHmin Dewpoint meter.

SDH mini portable dewpoint hygrometer which offers quick and reliable spot-check measurement of dewpoint and trace moisture content for industrial applications.

Certified intrinsically safe for use in hazardous area to ATEX, IECEx and UL standards.

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 Sensor
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 UL Class I Div.1 Groups A,B,C and D.
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	± 2°C dewpoint NPL traceable -90°C to +20°C
Response time	Wet to dry: -10°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	Full colour graphic LCD.
Power supply	Rechargeable Li-ion battery, charger included
Battery life	In excess of 150 hours continuous operation.
Resolution	0.1°C dewpoint or 0.1ppm(v)

Repeatability	Better than $\pm 0.2^{\circ}\text{C}$ dewpoint.
MECHANICAL	
Dimension	overall dimensions: 97mmW x 147mmD x 211mmH. 259mm at head up.
Weight	1.75kg
Operating pressure	Atmospheric to 0.3bar
Operating humidity	95%RH no condensing.
Operating temp.	-20°C to +50°C
Storage temp.	-30°C to +70°C
Sensor protection	316 sintered stainless sttel filter - 50 micron.
Weatherproof	IP66/NEMA 4X
Connections	Two Fir Tree type on either side of desciccant chamber.

에스엠지시스템(주)

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