Model DSP-Ex

Intrinsically Safe Portable Dewpoint Hygrometer

Features :-

- Intrinsically Safe ATEX EEx ia IIC T3 / T4
- Overall Range -110°C to +20°C Dewpoint
- User Friendly Simple Operation
- Portable Fully Self Contained
- Self-Diagnostics on Start-up
- Digital Indication
- Automatic Switch Off
- Quick Connect SS Coupling
- "C" Type Disposable Batteries
- Excess of 250 Hours of Continuous Operation
- Desiccant Dry-Down Chamber For Rapid Measurements
- Selectable Engineering Units in °C, °F, ppb(v), ppm(v), ppm(w), g/m³ & lb/MMSCF

Model DSP-Ex is a fully self-contained portable hygrometer from Alpha Moisture Systems which will deliver the most dependable moisture measurement in industrial and laboratory applications. Designed with the operator in mind, *Model DSP-Ex* is extremely easy to use and the digital *dewSMARTTM* technology ensures accurate and reliable readings over long periods with little or no maintenance. The incorporation of stainless steel quick connect fittings, together with the Desiccant Drydown Chamber, allows rapid measurements which saves both time and cost.

Model DSP-Ex is certified intrinsically safe to EEx ia IIC T3/T4 for use in hazardous areas without the need for any additional accessories. Designed to operate at atmospheric pressure, *Model DSP-Ex* is available in a total of six different ranges, encompassing an overall range from -110°C to +20°C dewpoint, with the display selectable in various engineering units:- °C, °F, ppm(v), ppb(v), ppm(w), g/m³ & lb/MMSCF. Parts per million (weight) can be programmed for gases other than those pre-programmed (Air, Ar, H2, SF6, CO2 & N2) by simply inputting the molecular weight of the gas under test.

Full interchangeability of the $dewSMART^{TM}$ Sensor ensures guaranteed accuracy and reliability without the need to return the whole unit back to base for calibration and setup.

Model DSP-Ex is supplied ready for use with batteries



installed, calibration certificate traceable to National and International Humidity standards, two metres of stainless steel braided PTFE sampling hose, instruction manual and an optional robust transit case.



To allow rapid spot checks it is essential that the measuring sensor is kept drier than the sample to be measured. The desiccant dry-down chamber is designed to do just this by keeping the sensor surrounded by desiccant when the instrument is not in use, only exposing it to the sample gas when taking measurements. At no stage is the sensor allowed to come into contact with ambient air.

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