



VAISALA DEW POINT, ENTHALPY & WET BULB TRANSMITTERS HMD/S/W8XD/H/W SERIES

VAISALA

DESCRIPTION

The **Vaisala Model HMX8XD Dew Point, HMX8XW Wet Bulb, and HMX8XH Enthalpy Transmitters** are rugged, compact, and ideally suited for monitoring dew point, wet bulb, or enthalpy in commercial HVAC/BAS applications. Using a Vaisala Intercap[®] RH sensor and an RTD temperature sensor, the unit's microprocessor computes the dew point, wet bulb, or enthalpy. Two linear outputs provide a 4-20mA signal for dew point, wet bulb, or enthalpy, and a 4-20 mA signal for dry bulb, temperature.



FEATURES

- Dew point, Wet Bulb and Dry Bulb accuracy of $\pm 1.8^{\circ}\text{F}$ ($\pm 1^{\circ}\text{C}$) over the specified range
- Enthalpy accuracy of ± 2 BTU/lb over specified range
- Two 4-20 mA output signals
- Microprocessor-based signal processing
- Weather resistant duct/OSA mounting
- Temperature compensated

APPLICATION

- Dew point for supply air setpoint (condensation prevention)
- Enthalpy for economizer efficiency
- Wet bulb for evaporative cooling decision potential



SPECIFICATIONS		
Accuracy		
Dew Point, Wet Bulb & Dry Bulb	$\pm 1.8^{\circ}\text{F}$ (1.0°C)	Operating Humidity 0 to 99 % non-condensing
Enthalpy	± 2 BTU/lb	Dimensions
Relative Humidity	$\pm 3\%$ RH	Duct 5.2" H x 2.8" W x 11.5" D (13.1 x 7.2 x 29.1 cm)
Supply Voltage	10 - 28 VDC	OSA 8.1" H x 4.8" W x 3.9" D (20.7 x 12.2 x 10 cm)
Signal Output	(2, Dry Bulb Temperature & Model Specific) 4-20 mA @ 600 Ω	Room 7.6" H x 2.8" W x 1.6" D (19.3 x 7.2 x 4.1 cm)
Measurement Range		Enclosure rating NEMA 4, IP65
Dew Point, Wet Bulb & Dry Bulb	-40° to 140°F (-40° to 60°C)	Approvals CE
Enthalpy	-10 to 190 BTU/lb (-40 to 460 kJ/hg)	Weight
Relative Humidity	0 to 100%	Duct 0.65 lb (0.29 Kg)
Sensing Technology	Viasal Intercap [®]	OSA 1.6 lb (0.72 Kg)
Operating Temperature	-40° to 140°F (-40° to 60°C)	Room 0.25 lb (0.11 Kg)
		Warranty 2 year

ORDERING INFORMATION	
MODEL	DESCRIPTION
HMD82TD	Duct dew point and dry bulb transmitter
HMS82TD	Outside Air dew point and dry bulb transmitter
HMW88TD	Room dew point and dry bulb transmitter
HMD82H	Duct enthalpy and dry bulb transmitter
HMS82H	Outside Air enthalpy and dry bulb transmitter
HMW88H	Room enthalpy and dry bulb transmitter
HMD82W	Duct wet bulb and dry bulb transmitter
HMS82W	Outside Air wet bulb and dry bulb transmitter
HMW88W	Room wet bulb and dry bulb transmitter
HMD82	Duct dry bulb and dry bulb transmitter
HMS82	Outside Air dry bulb and dry bulb transmitter
HMW88	Room dry bulb and dry bulb transmitter
RELATED PRODUCTS	
DCPA-1.2	Power supply, 120 VAC In to 24 VAC/24 VDC Out
DCP-1.5-W	Power supply, 24 VAC IN to 24 VDC OUT