Dewtran® -HB Series

Heated Chilled Mirror Hygrometer





FEATURES

- Heated Dewpoint System
- Suited to measure elevated dew points up 95°C noncondensing environments.
- 10ft Heated Hose
- The unit includes a heated stainless- steel sintered filter
- RS232 programmable
- Filter particles down to 7 microns
- Filter element is easy to remove and clean.
- ARC Cycle (balancing the optical signal of sensor)
- RS232-bidirectional.
- NIST Traceable Calibration.

APPLICATIONS

- HEAT TREATING
- AEROSPACE
- COMBUSTION GAS
- PHARMACEUTICAL
- INDUSTRIAL PROCESSES
- IN LINE ENGINE MONITORING
- FURNACE MONITORING
- RUBBER/PLASTIC PELLET DRYERS
- INDUSTRIAL GAS
- POWER GENERATION

The DewTran® -HB Series

The DewTran®-HB is a temperature controlled 2 stage chilled mirror hygrometer suited to measure elevated dew points up 95°C non- condensing environments. Dew point measurement range from -30C to 95C. The chilled mirror uses a fundamental principle to accurately measure the dew point/frost point in a gas sample. It is typically used a reference standard for dew point over the measurement range. It is very responsive and repeatable to +/- 0.05°C and easy to maintain.



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Technical Information

Measurement Ranges	Dew Point -30°C to 90°C
	(Depending on ambient conditions)
Technology	chilled mirror, 2 stage TEC
Repeatability	+/- 0.05°C
Resolution	0.01 %
Internal Heated Temperature Range	Ambient to 99°C (77 to 210°F) temperature range settable
Signal Output	4 -20 mA, 0-5Vdc or 0-
3	10Vdc
Pressure	Max 4.5 bar
Alarm	2 NC/SPDT 1 form C-0.5A 120/240Vac
Output	RS232 programmable
	Power/signal connection: M12 connector with 6ft cable (included)
Supply Voltage	90-265Vac
Sample Flow	0.5 to 3 SCFH (0.25 to
Sample Flow	1.42 l/m)
	, ,
Communication	RS232 bi-directional
Sensor Element	
	1/3 Class A Din, 100 ohms
	0°C (32°F)
Operating Temperature	0°C to 60°C
Operating reinperature	0 0 10 00 0
Housing	IP65 Enclosure
Housing	iPOS Eficiosure
Walaka	10lbs
Weight	10lbs.
Filter	SS sinter filter, 7 microns
riiter	55 Sittler titler, 7 Milcroffs
Dimensions	10.5" * 8.25" * 10"
Dimensions	10.3 0.23 10
Accuracy	+/- 0.2°C (+/-0.36° F).
Accuracy	+/- U.2 C (+/-U.30° F).
Connection	¼" compression
Display	2-line LCD Display



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Ordering Table (More configurations available upon request)

Model Types: DewTran-HB

Note: DewTran®-HB models come with power cord

Ordering Options	
DT-НВ	Dewtran heated box chilled mirror hygrometer



Figure 1: Dewtran-HB Side View

