

Dewtran® -LC Series

Chilled Mirror Hygrometer



FEATURES

- Precision Accuracy
- 2 alarms (SPDT)
- Two 4-20mA outputs (configurable)
- RS232 programmable
- Self-Aspirating (Wall mount and remote with fan only)
- Optional Data logging capabilities
- Can measure barometric pressure (wall mount only)

APPLICATIONS

- HVAC
- CLEAN ROOMS
- ENVIRONMENTAL CHAMBERS
- PHARMACEUTICAL
- INDUSTRIAL PROCESSES
- GLOVEBOX APPLICATIONS
- SEMICONDUCTOR
- DATA STORAGE

The DewTran® -LC Series

The DewTran® -LC Series (patented technology) is a low cost, precision dew point chilled mirror transmitter that provides a quick and accurate measurement of dew point. The transmitter has one configuration and is designed for three different applications (wall mount, duct mount and pipe mount). The unit offers two additional options, air temperature (T) and Barometric Pressure (BP), and other units of measurement are selectable via the RS232. The unit offers stable, accurate and repeatable measurements that are traceable to NIST.

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Technical Information

Measurement Ranges	<p>Dew Point -15C to 50C (depending on configuration and non-condensation applications) Air Temperature -10C to 60C Pressure rating 125 psig- interface 1.25"-12UNF RH 0- 95% (non-condensing) BP 10mb – 1100mb</p> <p>For elevated dew points above ambient temperature, please consult factor</p>
Repeatability	+/- 0.05°C
Resolution	0.01 %
Output	<p>RS232 programmable Power/signal connection: M12 connector with 6ft cable (included)</p>
Supply Voltage	24Vdc +/-3V @ 1.5A
Analog Output scaled range Dew Point (4-20mA) User Selectable	<p>(2) 4-20mA (configurable) Factory set-both outputs, -20C to 40C (unless specified on order)</p>
Operating Temperature	<p>-25 °C to +95 °C (Remote units) -20 °C to +60 °C (Wall mount units)</p>
Weight	< 5lbs.
Sample Flow Rate	1-3 scfh
Enclosure Rating	IP66 with AT option
Dimensions	122*120*154mm (L*W*D)
Accuracy	<p>Dew point +/-0.3C Air Temperature +/-0.3C RH +/-2% (0-80%), +/-3% (>80% to 95%) BP +/-3mb</p>

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Ordering Table (More configurations available upon request)

Model Types: DT-LC-W (Wall), DT-LC-D (Duct), DT-LC-P (Pipe)

DewTran® (dew points down to -15C at a 25C (77F) heat sink temperature.

Options:

- B Barometric Pressure sensor option (wall mount configuration only)**
- T Temperature probe with a standard 10ft cable**

Ordering Options	
DT-LC-W-B	DewTran® LC wall mount with barometric pressure
DT-LC-D-T	DewTran® LC duct mount configuration with remote air temperature probe (10ft cable)
DT-LC-W	DewTran® LC wall mount
DT-LC-D	DewTran® LC duct mount
DT-LC-P	DewTran® LC pipe mount

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