

**The UDT series** is a precision measuring chilled mirror hygrometer that provides quick and accurate humidity, dew point, air temperature or barometric pressure measurements. The hygrometer can be configured for either a wall mount, duct mount, remote mount, or a flow through application. User selectable, depending on options, for either displaying Relative Humidity (RH) and temperature, dew point and barometric pressure (BP), or dew point and temperature, other configurations are available. The unit offers a stable, accurate and repeatable measurements that are traceable to NIST.



**(UDT-R)**

**Application use:**  
HVAC  
Clean rooms  
Industrial processes  
Pharmaceutical  
Glove box

**(UDT-W)**

**Features:**  
Precision accuracy  
Dew point, Air temperature,  
Relative Humidity (RH),  
Barometric pressure option  
2 alarms (NC)  
2 4-20 mA analog outputs  
(configurable)  
RS232 (programmable)  
Two-line display  
Self-Aspirating (wall mount  
only)

**Model Types: UDT-W, UDT-R**

**UDT (dew points down to -40C) at a 25C (77F) ambient temperature.**

**Note: Except for wall mount configurations. all UDT models have a cable between the display/control and the sensor.**

**The UDT model can be configured one of the following ways:**

**Part#    Description**

- W-        Wall mount configuration**
- R-D-        Duct mount configuration with a gasket seal in a remote configuration**
- W-FT-      Flow through configuration with a sample chamber (SC)**
- R-        Remote mount configuration with 10ft Cable**

**Note: custom cable lengths and mounting configurations available, call factory**

**Options**

- B      Barometric Pressure sensor option (wall mount configuration only)**
- SC    Sample chamber with inlet and outlet tube ¼" fittings**
- T-R    Temperature probe with a 10ft remote cable**
- T-W    Temperature measurement in a wall mount configuration**

**Ordering Examples**

<b>Part#</b>	<b>Description</b>
<b>UDT-W-B</b>	<b>UDT wall mount with barometric pressure</b>
<b>UDT-W-FT</b>	<b>UDT flow through mount in a wall mount configuration</b>
<b>UDT-R-T-R</b>	<b>UDT remote mount with a remote air temperature probe</b>

## Specifications:

### Accuracy:

Dew point +/-0.2C

Air Temperature +/-0.2C

RH +/-1.0% (0-80%), +/-2% (>80% to 95%)

BP +/-1.5mb

### Range:

Dew Point -40 to 95C (depending on configuration and non-condensation applications)

Air Temperature -10C to 60C

Air Temperature for Remote Unit -10C to 95C

R version 95C & 95% available for Humidity

Chamber calibration (non-condensation)

RH 0- 95% non-condensing

BP 10mb – 1100mb

**For elevated dew points above ambient temperature, please consult factory**

### Repeatability:

+/-0.05C

### Power

24Vdc +/-3V

### Communications:

RS232 programmable

### Alarms:

*Two relays (NC)*

### Analog Outputs:

Two 4-20mA (configurable)

### Weight: <5lbs