

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

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

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