

# HTK T 5050 DEW POINT METER (-100 °C ... + 50 °C)



- Fast response time
- Wide measuring range
- Accurate

With the T 5050 HTK has combined next generation measurement technology with modern user interface design. The experienced user knows that dew point measurement also requires the measurement of line pressure (according to ISO 8573), since dew point is pressure dependent. With the T 5050 the line pressure is measured in combination with the dew point, so the user can be confident that the calculation is accurate and free from human error.

T 5050 comes with two sensor units: Sensor Q uses the new QCM technology which provides fast and accurate measurement results at dew points below  $-30^{\circ}\text{C}$  down to  $-100^{\circ}\text{C}$ . Sensor P is for high moisture applications from  $-50^{\circ}$  ...  $+50^{\circ}\text{C}$  where our polymer sensor is more suitable. Both sensors can be easily exchanged.

## Features

- Measures dew point, temperature and pressure (all in one instrument)
- 3 sensor solutions available:  
Q:  $-100^{\circ}\text{C}$  ...  $-30^{\circ}\text{C}$  sensor for trace moisture applications  
P:  $-50^{\circ}\text{C}$  ...  $+50^{\circ}\text{C}$  sensor for standard applications  
Q+P: covering the full range of dew point measurement
- Modern color touch screen interface
- Data logger, USB interface, wireless connection to portable printer
- Measuring / parking chamber for fast sensor response
- Application software included



Portable wireless printer  
HDT 312



Transport case:  
compact + safe

## Benefits

1. A modern, state of the art graphical user interface with touch screen functions for ease of operation similar to modern smart phones.
2. The data logger can record as many as 100 million values which are stored on a flash card. The card can be removed for fast transportation of the recorded information to your PC, or alternatively the information can be transferred or read via USB .
3. Using a portable printer on-site printouts can be created showing the measured values, location and date/time. Of course these values can be stored as well for report generation in your office.
4. T 5050 comes in a robust transport casing including measuring chamber, battery charger, USB cable and a Teflon<sup>®</sup> hose allowing for quick connection to the compressed air system and immediate measurements.

Technical Data overleaf

# HTK T 5050 DEW POINT METER (-100 °C ... + 50 °C)

## Details



Easy sensor module change through slide-in module with auto-connect



SD card slot  
USB port



Unique measuring / parking chamber for fast sensor response



Teflon hose with quick connect

## Technical data

Type	HTK T 5050	
Measuring	Sensor Q:	-100 °C ... -30 °C
	Sensor P:	-50 °C ... + 50 °C
	Pressure:	-0,1 ... 1,5 MPa
	Temperature:	-30 °C ... +50 °C
Accuracy	Dew point:	±2°C dew point
	Pressure*:	± 0,005 MPa
	Temperature:	± 0,3 °C
	(Stated uncertainty at: Ambient / process temperature of 23°C ±3°C and ambient humidity of < 90%, no condensation)	
Measured gas	Non-corrosive gases	
Ambient conditions	Ambient temp.:	0°C ... +50°C
	Storage temp.:	-40°C ... +65°C
	Ambient humidity:	< 90%, no condensation
	EMC:	IEC / EN 61326
Response time t <sub>90</sub>	-50°C -> -10°C: < 10 seconds -10°C -> -50°C: < 5 minutes	
Charger / battery	USB charger:	5VDC, 2A
	Battery life:	6 h
	Charging time:	4 h
Data logger	Memory size:	4 GB
	Medium:	SD card

\* at least 0.3 MPa is needed for the measuring chamber supplied with the instrument.  
For low pressure measurements below 0.3 MPa choose the optional bypass measuring chamber A699 3501

# HTK T 5050 DEW POINT METER (-100 °C ... + 50 °C)

## HTK T 5050 Set 1

- Handheld meter with data logger and S4A software
- Sensor unit P -50°C ... +50°C
- Parking/Measuring chamber
- Teflon hose and quick connector
- USB charger with USB cable
- Transport case

## HTK T 5050 Set 2

- Handheld meter with data logger and S4A software
- Sensor unit Q -100°C ... -30°C
- Parking/Measuring chamber
- Teflon hose and quick connector
- USB charger with USB cable
- Transport case

## HTK T 5050 Set 3

- Handheld meter with data logger and S4A software
- Sensor unit P -50°C ... +50°C
- Sensor unit Q -100°C ... -30°C
- Parking / Measuring chamber
- Teflon hose and quick connector
- USB charger with USB cable
- Transport case HTK 5050, L400 x W300 x H130 mm

## Accessories

- mobile printer HDT 312
- Paper roll for HDT 312 (contains 3 rolls)
- Parking/Measuring chamber by-pass type