# PORTABLE DEW POINT METER (-100 ... +50ºC Td)
# S505

**DATA LOGGER**
To save and print
your measurements

# Ultra portable —
# **all in one single handheld**

## S505 FEATURES

**DATA LOGGER**
To save and print your measurements

**PORTABLE UNIT**
Handheld unit within a rugged case

**LOW DEW POINT**
Measures down to -100°C Td

**PRESSURE SENSOR**
Always integrated

## S505 BENEFITS

- Measures dew point, temperature and pressure (all in one instrument)
- 3 sensor solutions available:

  Q :       -100 ... -30°C Td sensor for trace moisture applications

  P :       -50 ... +50°C Td  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

With the S505 SUTO 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 S505 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.

S505 comes with two sensor units: Sensor Q uses the new QCM technology which provides fast and accurate measurement results at dew points below −30°C Td down to −100°C Td. Sensor P is for high moisture applications from -50 ... +50°C Td where the SUTO polymer sensor is more suitable. Both sensors can be easily exchanged.

Additional features unique to the S505 include:

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. S505 comes in a robust transport casing including measuring chamber, battery charger, USB cable and a Teflon® hose allowing for quick connection to the compressed air system and immediate measurements.

# S505 TECHNICAL DATA

| General Specifications | | |
|---|---|---|
| Measuring range | Sensor Q: <br> Sensor P: <br> Pressure*: <br> Temperature: | -100 ... -30°C Td <br> -50 ... +50°C Td <br> -0.1 ... 1.5 MPa <br> -30 ... +50°C |
| Accuracy | Dew point: <br> Pressure: <br> Temperature: | ±2°C Td <br> ±0.005 MPa <br> ±0.3°C |
| | (Stated uncertainty at: Ambient / process temperature of 23°C ±3°C and ambient humidity of < 95% rH, no condensation) | |
| Measured gas | Non-corrosive gases | |
| Ambient conditions | Ambient temp.: <br> Storage temp.: <br> Ambient humidity: <br> <br> EMC: | 0 ... +50°C <br> -40 ... +65°C <br> 0 ... 80% rH, <br> no condensation <br> IEC / EN 61326 |
| Response time t90 | -50°C Td -> -10°C Td = < 10 seconds <br> -10°C Td -> -50°C Td = < 5 minutes | |
| Charger / battery | USB charger: <br> Battery life: <br> Charging time: | 5VDC, 2A <br> 6 h <br> 4 h |
| Data logger | Memory size: <br> Medium: | 4 GB <br> 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



Portable wireless printer



Transport case: compact + safe

## Details



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



USB port          SD card slot



Unique measuring / parking chamber for fast sensor response



Teflon hose with quick-connect

# S505 ORDERING

Please use the following table to assist in placing your order with our sales staff.

| S505 PORTABLE DEW POINT METER (-100 ... +50°C Td) | |
|---|---|
| **Order No.** | **Description** |
| **P600 0505** | **S505-1 Set consisting of:**<br>- Handheld meter with data logger and S4A software<br>- Sensor unit P -50 ... +50°C Td<br>- Parking/Measuring chamber<br>- Teflon hose and quick connector<br>- USB charger with USB cable<br>- Transport case |
| **P600 0506** | **S505-2 Set consisting of:**<br>- Handheld meter with data logger and S4A software<br>- Sensor unit Q -100 ... -30°C Td<br>- Parking/Measuring chamber<br>- Teflon hose and quick connector<br>- USB charger with USB cable<br>- Transport case |
| **P600 0507** | **S505-3 Set consisting of:**<br>- Handheld meter with data logger and S4A software<br>- Sensor unit P -50 ... +50°C Td<br>- Sensor unit Q -100 ... -30°C Td<br>- Parking / Measuring chamber<br>- Teflon hose and quick connector<br>- USB charger with USB cable<br>- Transport case S505, L400 x W300 x H130 mm |
| **Options / accessories** | |
| **A554 0020** | SUTO mobile printer for printouts on site |

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