

S520

Portable Dew Point Meter

Full Range

-100 ... +20 °C Td

Eco Range

-60 ... +50 °C Td



SMART DEVICE

Dew point prediction



TOUCH SCREEN Intuitive user interface



PRESSURE SENSOR

Enables various humidity units



DATA LOGGER

Integrated mass storage



LOW DEW POINT

Measures down to -100 °C Td



CAMERA INTEGRATEDPictures for

better reports



PORTABLE UNIT

Handheld unit within a rugged case



DEW POINT AUDITS

Indication of class on display





Benefits

- Easy to use portable meter to measure dew point, temperature and pressure on site
- Sensor selection according to your needs:
 Sensor A: -100 ... +20 °C Td
 Sensor C: -60 ... +50 °C Td
 both with integrated pressure sensor
- ISO 8573 class measurements with powerful ISO 8573-1 PDF reporting function
- Wireless printer for on-site reporting to easily perform audits
- Unique Measuring chamber with parking function supports fast response times
- Optional smart features: End value prediction, camera and measurement snapshot



Dew Point Value Prediction

The S520 offers a unique dew point end value prediction algorithm as a built-in technology.

Based on the dew point measurement curve our algorithm is able to predict the end value before actually reaching the end value.

This feature enables the user to predict the dew point end value in a minimum amount of time. It helps on-site engineers to save time and to perform faster dew point audits.

Smart Features

Dew point end value prediction is a part of the smart features. With the smart features option, users also get a 5 Megapixel camera and the snapshot function for quick measurement logging.



Measurement Snapshot

Take a quick measurement snapshot of the current measurement, add the customer information and easily create a printed report.

All can be done on the device via touchscreen input.





Measurement Chamber

The unique measuring chamber with integrated parking function enables users time efficient dew point measurements.

When the instrument is not used, the measuring chamber can be set to parking position. In this state, the sensor is exposed to a desiccant, which keeps the sensor well protected and dry.

When starting the next measurement, the sensor is pre-dried and has therefore an ultra-fast response time, perfect for air audits.



Unique SUTO Triple-Sensor

S520 is equipped with the SUTO QCM, the Polymer and an integrated Pressure sensor.

Our QCM sensor is the result of years of high-tech research and development. The sensor was especially designed for low dew point applications where other sensor types fail.

The combination of QCM and the well known Polymer sensor makes the S520 measure accurate over the whole range, from -100 °C Td up to +20 °C Td by switching automatically between the two sensor elements as needed. At the same time the line pressure is measured.

Application: Compressed Air Quality Monitoring On Site

The S520 Portable Dew Point Meter enables more accurate and frequent quality monitoring to operators. Throughout any given day, plant personnel can check the dew point throughout their system, using the S520's detailed metrics and portability to gather useful information from even the least accessible corners of their system.

With the S520, operators can make sure that their compressed air treatment system (air dryers, filters, and drains) is functioning at its absolute peak. If the S520 reveals heightened moisture levels at any point during the routine check, personnel can quickly locate and resolve the issue, reducing instances of clogged filters and dryer problems.

Optional Printer

Wireless printer used to print the measurement results on site. Perfect solution for quick audits.



Exchange Service

No Downtime anymore!

The exchange calibration service eliminates down time and enables users to have a seamless record of their dew point measurements.

The user receives in advance a calibrated instrument with calibration certificate and the same instrument settings. The on-site instrument is then switched against the calibrated one and returned to the supplier.





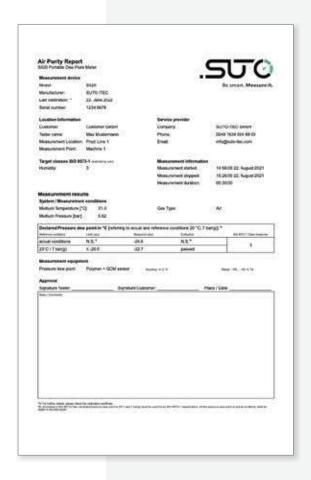
PDF Report Function according to ISO 8573-1

Create powerful PDF Reports on-site according to the ISO 8573-1 standard.

The reports are following the recommendations stated in the ISO 8573-1, additionally customer related data as well as service provider details can be entered on-screen, making it even easier to perform audits and to create meaningful reports.

PDF reports can be created from any recordings on the device and are copied on the fly to a connected USB drive.

The declared Pressure dew point in °C is stated as the measured dew point under actual conditions as well as referring to reference conditions at 20 °C/7 bar(g), as it is required by ISO 8573-1 standard. This is only possible, thanks to the integrated pressure sensor on the S520.



Technical Data

Advance of the second	
Measurement	
Dew point	
	1.00 T.1 (000.00 T.1)
Accuracy	± 1 °C Td (0 20 °C Td)
	± 2 °C Td (-70 0 / +20 +50 °C Td)
	± 3 °C Td (-10070 °C Td)
Selectable units	%rH, °C Td, g/m³, mg/m³, g/m³ atm.,
	mg/m³ atm. , ppmv, g/kg, °C Td atm.
Measuring range	Sensor A: -100 +20 °C Td
	Sensor C: -60 +50 °C Td
Repeatability	0.5 ℃
Sensor	Sensor A: QCM + Polymer
	Sensor C: Polymer
Pressure	
Pressure Accuracy	0.5 % FS
	0.5 % FS 0 1.6 MPa (g)
Accuracy	0.5 /0 . 5
Accuracy Measuring range	0 1.6 MPa (g)
Accuracy Measuring range Sensor	0 1.6 MPa (g)
Accuracy Measuring range Sensor Temperature	0 1.6 MPa (g) Piezo resistive sensor

Interface & Supply	
Supply	
Power supply	USB charger: 5 V, 3 A
	Connector: USB-C
Operating time	8h
Data interface	
Connection	USB

^{*} At least 0.3 MPa (g) is needed for the measuring chamber supplied with the instrument. For low-pressure measurements below 0.3 MPa (g) choose the optional bypass measuring chamber A699 3501.

General data	
Display	
Integrated	3.5" color LCD touch screen
Data Logger	
Storage	Integrated mass storage, up to 30 million recorded data sets (4 channels each)
Material	
Housing	PC + ABS
Metal parts	Aluminium
Miscellaneous	
Protection class	IP30
Approvals	CE
Weight	2.8 kg Complete Set in Transport Case
	0.8 kg S520 Handheld (incl. Sensor & Measuring Chamber)
Operating conditions	
Medium	Air, N ₂ , O ₂ , Argon, CO ₂
	Note: The CO ₂ measurements with the A1371 sensor are limited to -40 °C Td.
Medium temperature	-30 +50 °C
Medium humidity	0 90 %, no condensation
Operating pressure	-0.1 1.6 MPa (g)*
Ambient temperature	0 +40 °C
Ambient humidity	0 80 % rH
Storage temperature	-20 +50 °C
Transport temperature	-30 70 °C



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Ordering

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

S520 Portable Dew Point Meter		
Order No.	Description	
P600 0520	S520 Handheld Dew Point Meter with data logger (P560 0520) Including: Measuring chamber with parking function 1.5 m PTFE hose 6 mm with quick coupling, USB-OTG memory stick USB charger with USB-C cable Certificate of calibration Transport casing	
Measuring range (Sensor unit)		
A1370	-100 +20 °C Td Full Range Sensor Unit A, with integrated Pressure Sensor 0 1.6 MPa (g)	
A1376	-60 +50 °C Td Eco Range Sensor Unit C, with integrated Pressure Sensor 0 1.6 MPa (g)	
Wireless printer		
A1374	Without printer	
A1372	With wireless printer for measurement printouts on site	
Smart featu	re	
A1375	Without smart features	
A1373	With smart features (Measurement snapshot, Dew point end value prediction, Camera)	

S520 Accessories

Order No.	Description
A699 3501	By-pass measuring chamber with parking function, 0 1.0 MPa, 6 mm hose quick connector as in- and outlet
A554 0021	Paper rolls for wireless printer

Ordering Example

Example	S520 Handheld Dew Point Mete with data logger, -100 +20 °C Td Sensor, Without printer, With smart features
Order Code	P600 0520.A1370.A1374.A1373







USB charger with USB-C cable