COMPRESSED AIR PURITY ANALYZER
S600

ALL IN ONE
Dew point, particle and oil vapor

Smart measurement — **save precious time**

S600 FEATURES

ALL IN ONE
Dew point, particle and oil vapor

PRECISION
Accurate measurements

TOUCH SCREEN
Easy operation

COMPACT DESIGN
Makes it unique

PORTABLE
Can be carried with one hand

USB INTERFACE
For data transfer

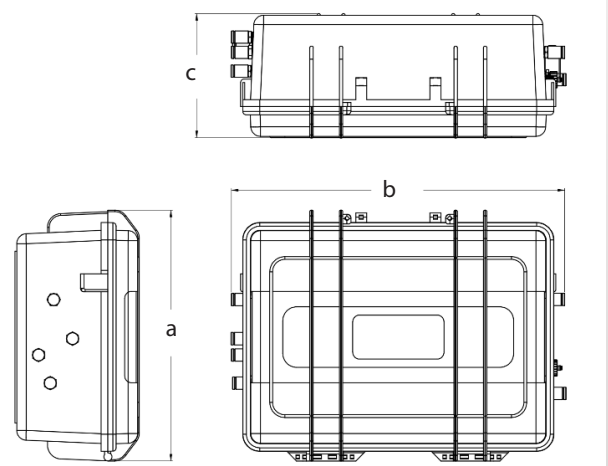
ISO 8573 compliant purity quantifications of compressed air systems are bound to time-consuming installations and long-lasting test runs ... It's time for a revolution: The S600 is unlike its competition.

It combines the latest sensor technology, software-guided measurements and a time-saving setup into a handy, touch-screen controlled multi-tool. With our S600 you will finish measurement runs in much less time than with your traditional method, after that you don't ever want to leave your new comfort zone again. Trust us.

S600 BENEFITS

- All-in-one device measures Particle concentration, dew point and oil vapor
- Measures additionally the temperature and pressure
- Software guided measurement makes it easy to generate reliable results
- Report generator creates PDFs for audits
- Ultra portable and compact design
- Compressed air connection via 6 mm tube
- Integrated data logger saves data for later analysis
- Dew point measurement from -100... +20 °C Td
- Oil vapor measurement from 0.003... 10.000 mg/m³
- Particle measurement from 0.1 < d ≤ 5.0 µm

S600 DIMENSIONS



Dimensions in mm	a	b	c
S600	365	490	181

S600 APPLICATIONS

The S600 is the portable multi-tool for compressed air purity measurements. It measures, records and validates quality parameters like particles, dew point, oil vapor contents, temperature and the pressure of compressed air systems.

0.1 < d ≤ 5.0 µm

PARTICLE CONCENTRATION MEASUREMENT

+ Measurement methods according to ISO 8573 standards (together with isokinetic sampling device)
+ Latest laser detection technology
+ Smallest particle size 50 % per JIS, bigger sizes 100 % per JIS

-100 ... +20 °C Td

DEW POINT MEASUREMENT

+ Large ranges thanks to the unique multiple sensor technology
+ Long-term stable and well-proven measurement methods
+ High precision with an accuracy of ±2 °C Td

0.003... 10.000 mg/m³

OIL VAPOR MEASUREMENT

+ Latest photoionisation detector (PID) with self-calibration
+ Wide range of oil vapor concentrations
+ High precision with 5 % of reading ± 0.003 mg/m³ accuracy

0.3 ... 1.5 MPa

PRESSURE MEASUREMENT

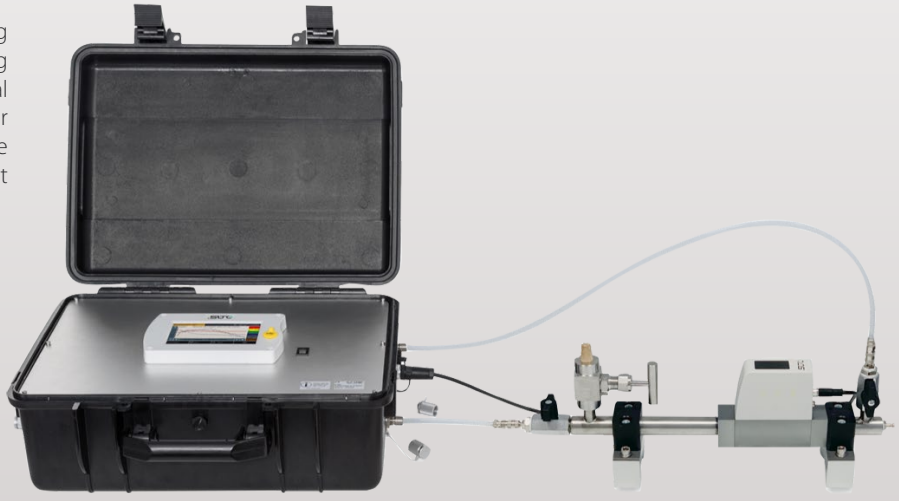
+ State of the art sensor technology
+ Additional quality data about the compressed air system

Log & Report

PLUG & PLAY MEASUREMENTS WITH A TOUCH

+ Integrated data logger records all channels in parallel for later analysis
+ 5" touchscreen allows you to interact with the device on site. There in no need for a PC to manage the device.

For particle measurements according to ISO 8573 an isokinetic sampling tube has been designed. This optional equipment enables you to monitor and adjust the air flow of the particle measurement to ensure the correct isokinetic sampling.



S600 with the isokinetic sampler attached

S600 TECHNICAL DATA

General Specifications	
Measuring unit	5" colour touchscreen with data logger, guided measurement and report generator function. All combined and integrated with the multiple sensor system.
Process connection	Connection tube 1.5 m with compressed air coupling
Operating pressure	0.3 ... 1.5 MPa
Ambient temperature	0 ... +50 °C
Storage & Transport temperature	-10 ... + 70 °C
Medium	Compressed Air, Nitrogen N2, Carbon dioxide CO2 (software setting)
Medium temperature	0 ... + 40 °C
Medium humidity	< 40 % rH, no condensation
Reference settings	ISO1217 20 °C 1000 mbar
UV lamp lifetime (oil vapor sensor)	6000 working hours
Power supply	Mains supply adapter (AC/DC) Input: 100 ... 240 VAC, 50/60 Hz, 1.4 A Output: 24 VDC, 2.5 A, 60 W max.
Data logger	100 mio. values, Integrated report generator for PDF export
Measured values	Temperature, Pressure, Oil vapor, Dew point, Particle concentration
Interface	USB, Modbus TCP
Display	Touchscreen, Size: 5", Resolution: 800 x 480 px
Dew point sensor	Dual-sensor technology (QCM & Polymer)
Particle sensor	Laser optical detection
Oil vapor sensor	PID (Photoionisation detector)
Measurement duration	min. 35 minutes (no upper limit)
Sampling rate	1 sample / sec.
Classification	IP65 (cover lid closed)
Casing material	PC + ABS, Al alloy
Weight	9.8 kg
EMC	IEC 61326-1
Measurement Specifications	
Measurement range Particle counter	0.1 < d ≤ 0.5 µm ; 0.5 < d ≤ 1.0 µm ; 1.0 < d ≤ 5.0 µm
Measurement range Dew point sensor	-100 ... +20 °C Td
Measurement range Oil vapor sensor	0.003 ... 10.000 mg/m³
Detection limit oil vapor sensor	0.003 mg/m³
Resolution oil vapor sensor	0.001 mg/m³
Accuracy Particle measurement	50 % @ 0.1 < d ≤ 0.15 µm 100 % @ 0.15 µm > d per JIS
Accuracy Dew point measurement	±2 °C Td
Accuracy Oil vapor measurement	5 % of value ± 0.003 mg/m³
General Specifications Isokinetic sampling device	
Measuring unit	Sampling pipe with integrated isokinetic sampling tube, flow regulation and control by integrated flow sensor, to be used for particle measurements according to ISO8573
Process connection	Connection tube 1.5m with compressed air coupling 1 compressed air coupling inlet 2 quick connections to S600 connection tubes to S600 included
Operating pressure	0.3 ... 1.5 MPa
Ambient temperature	0 ... +50 °C
Storage & Transport temperature	-10 ... +70 °C
Flow sensor	Thermal mass flow, only for isokinetic flow setup, no system-flow measurement
Interface	Communication interface for S600, cable included, M8
Accuracy	3 % o. RDG
Purge flow	Regulated by needle valve, setup guided by S600

S600 ORDERING

Visit our website or e-mail us:
www.suto-itec.com
sales@suto-itec.com

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

S600 Portable Compressed Air Purity Analyzer	
Order No.	**Description**
P560 0600	S600 Portable compressed air analyser Touch screen interface, data logger, guided measurement, PDF report generator, USB port and Ethernet port with Modbus TCP Particle d: 0.1 < d <= 0.5 µm 0.5 < d <= 1.0 µm 1.0 < d <= 5.0 µm Dew point: -100 ...+20 °C Td Oil vapor: 0.003 ... 10.000 mg/m³ Including: - Portable compressed air analyzer in a hand carry case with handle and shoulder belt - USB OTG memory stick - Purge filter for pre-measurement (test kit) - Power supply, 230 VAC / 24 VDC 50/60 Hz - 2 x Connection tube 1.5 m, one end quick coupling, one end compressed air coupling - Certificate of calibration - Operation and instruction manual
A554 0600	Isokinetic sampling device for particle measurement according to ISO 8573 Including: - Isokinetic sampling pipe - Flow sensor mounted on pipe - Certificate of calibration - Connection cable to S600 - Connection tube 150 mm, both ends quick coupling - Connection tube 700 mm, both ends quick coupling - Connection tube 1.5 m, one end quick coupling, one end compressed air coupling - Transport case to carry the device, hoses and cables