

# COMPRESSED AIR PURITY ANALYZER S601



# Smart measurement - all values in one place



## S601 FEATURES



### COMPACT DESIGN

Can be installed anywhere



### PRECISION

Accurate measurements



### TOUCH SCREEN

5" large color LCD



### ALL IN ONE

Dew point, particle and oil vapor

The S601 combines three major quality measurements into a single wall mountable device. Optimized to be used as Plug & Play system, the S601 helps users to identify the air quality at a glance.

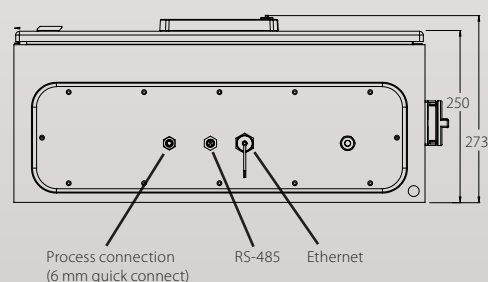
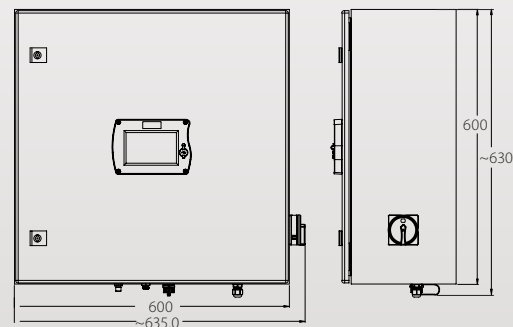
The robust cabinet makes it well suited for rough industrial applications. A stainless steel cabinet is offered on request, which is suited for pharmaceutical and medical applications.

The S601 combines the latest sensor technology and a time-saving setup into a one-of-its-kind multi-tool. Mount it, power it, connect it and measure. Trust us, it is that easy.

## S601 BENEFITS

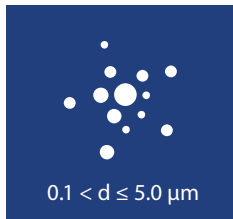
- All-in-one device measures particle concentration, dew point and oil vapor
- Measures additionally the temperature and pressure
- Open protocol outputs integrate it into your management system
- Modbus/RTU (RS 485) and Modbus TCP (Ethernet) included
- Compact design and easy setup
- Compressed air 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/m<sup>3</sup>
- Particle measurement in two versions:
  - A1260:  $0.3 < d \leq 5.0 \mu\text{m}$
  - A1263:  $0.1 < d \leq 5.0 \mu\text{m}$

## S601 DIMENSIONS



# S601 FEATURES

The S601 is the stationary 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. It offers different signal outputs to seamlessly integrate it into your system. The integrated logger stores the recorded values safely.



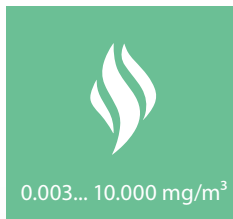
## PARTICLE CONCENTRATION MEASUREMENT

- + 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



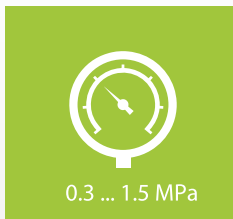
## DEW POINT MEASUREMENT

- + Large ranges thanks to the unique multiple sensor technology
- + Long-term stable and well-proven measurement methods
- + High precision with an accuracy of  $\pm 2^{\circ}\text{C Td}$



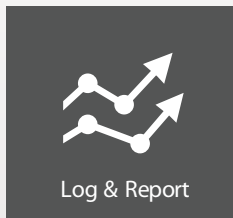
## OIL VAPOR MEASUREMENT

- + Latest photoionisation detector (PID) with self-calibration
- + Wide range of oil vapor concentrations
- + High precision with 5% of reading  $\pm 0.003 \text{ mg/m}^3$  accuracy



## PRESSURE MEASUREMENT

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

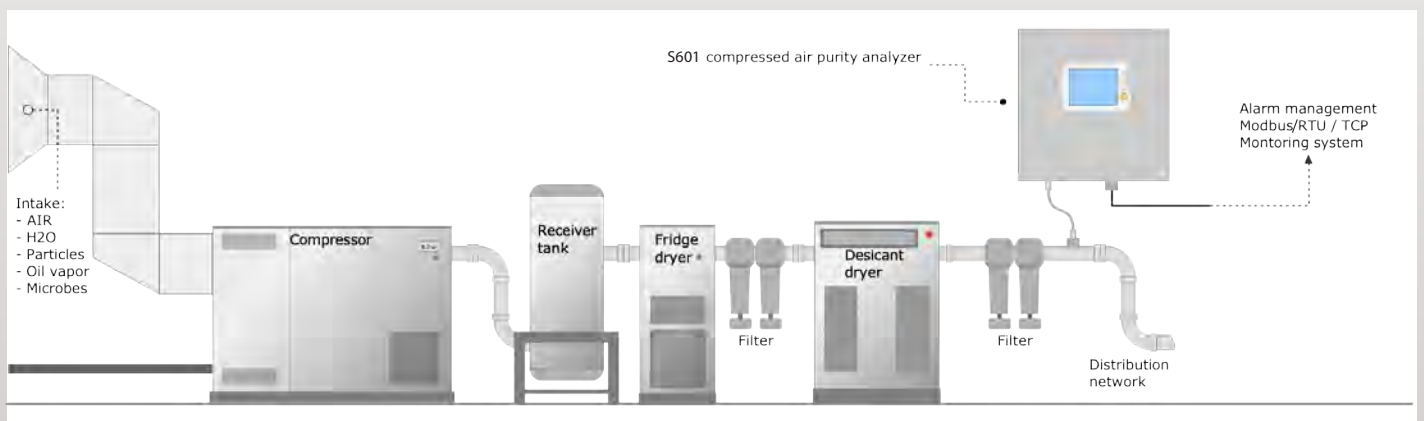


## PLUG & PLAY MEASUREMENTS WITH A TOUCH

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

The S601 is based on a modular concept which enables the client to decide which type of measurement needs to be performed. This makes the S601 customizable and flexible to offer the end-user the best suited instrument to finish the desired measurement tasks.

## S601 application in a compressed air system



# S601 TECHNICAL DATA

General Specifications					
Pressure range	0.3 ... 1.5 MPa				
Power supply	100 ... 240 VAC / 50 VA				
Measured gas	Air				
Medium humidity	< 40% relative humidity				
Ambient conditions	0 ... 50°C				
Transport Temp.	-10 ... +70°C				
Data logger	100 million samples 1 sec ... 1h sampling rate				
Output signal	Ethernet (Modbus TCP) RS-485 (Modbus/RTU) USB				
Casing	Sheet steel, powder-coated on the outside Stainless steel on request				
Classification	IP54				
Electrical connection	1 x M12, 5 poles (RS-485) 1 x RJ45 (Ethernet) 1 x mains cable with plug				
Process connection	6 mm quick connect				
Approvals	CE, RoHS				
S601 - Measurement specs	Sensor type	Range	Accuracy		
Particles	Laser optical detection	Option A1260	Option A1263	Option A1260	Option A1263
		0.3 < d ≤ 0.5 µm 0.5 < d ≤ 1.0 µm 1.0 < d ≤ 5.0 µm	0.1 < d ≤ 0.5 µm 0.5 < d ≤ 1.0 µm 1.0 < d ≤ 5.0 µm	50 % @ 0.3 < d ≤ 0.45 µm 100% @ 0.45 µm < d per JIS	50 % @ 0.1 < d ≤ 0.15 µm 100% @ 0.15 µm < d per JIS
Oil vapor	Photoionisation detector PID	0.003 ... 10.000 mg/m <sup>3</sup>	5% of value ± ... 0.003 mg/m <sup>3</sup>		
Dew point	Dual-sensor technology (QCM + Polymer)	-100 ... +20°C Td	± 2°C Td		

## S601 ORDERING

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



Visit our website or e-mail us:  
[www.suto-itec.com](http://www.suto-itec.com), [www.filco.cz/en](http://www.filco.cz/en)  
[sales@suto-itec.com](mailto:sales@suto-itec.com), [info@filco.cz](mailto:info@filco.cz)

S601 Stationary compressed air analyzer	
Order No.	Description
<b>D500 0601</b>	S601 compressed air analyzer Touch screen interface, data logger, metal cabinet for wall mounting Supply voltage 100 ... 240 V AC, Inlet pressure 0 .. 1.0 MPa Including: - Dew point measurement rig -100 ... +20°C Td - 2 m Teflon hose - 1.5 m Teflon hose with quick connector - Purge unit for measuring point cleaning - USB OTG memory stick - S4A Software for logger read out and analysis - 1 x Teflon hose adapter - Certificate of calibration
	<b>Particle counter</b>
<b>A1260</b>	Integrated particle counter rig, 0.3 < d ≤ 0.5 µm, 0.5 < d ≤ 1.0 µm, 1.0 < d ≤ 5.0 µm, 2.83 l/min
<b>A1263</b>	Integrated particle counter rig, 0.1 < d ≤ 0.5 µm, 0.5 < d ≤ 1.0 µm, 1.0 < d ≤ 5.0 µm, 2.83 l/min
	<b>Oil vapor measurement</b>
<b>A1267</b>	Integrated oil vapor sensor rig, 0.003 ... 10.000 mg/m <sup>3</sup>