

## Instruction and Operation Manual

# Zero filter for oil vapor sensors

**A554 1203**



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## 1 Safety instructions

Please check if this instruction manual matches with the product type.



### **WARNING!**

#### **Compressed air!**

**Any contact with quickly escaping air or bursting parts of the compressed air system can lead to serious injuries or even death!**

- Do not exceed the maximum permitted pressure range (stated on the sensors label).
- Only use the pressure-tight installation material.
- Avoid getting hit by escaping air or bursting parts of the instrument.

### **Storage and transportation**

- Make sure that the transportation / storage temperature of the device is between -30... +70°C.
- For transportation it is recommended to use the closing caps to protect the inlet and outlet of the device.

## 2 Application

This zero filter is used to test oil vapor sensors used in the SUTO products such as S120, S600, S601, and equivalent products. The sensor under test should show zero values after 35 minutes latest.

## 3 Technical data

Filter material	Activated carbon
Fittings (inlet / outlet)	6 mm, quick connectors
Pressure rating	0 ... 1.5 MPa
Dimensions	90 x 45 mm
Weight	250 g
Life time	90 hours (Test condition: Isobutylene, 1 ppm, 25°C, 4 NL/min)

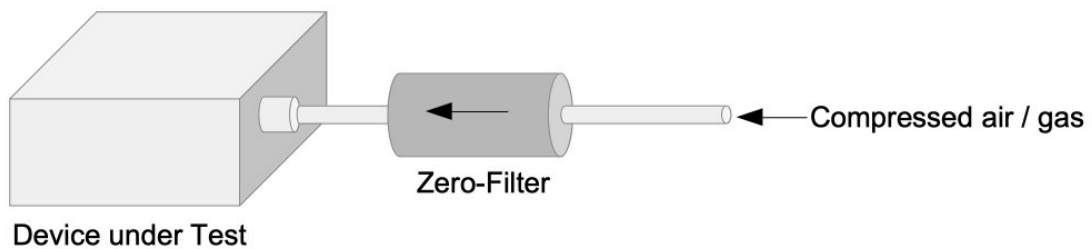
## 4 Installation

Before you install the sensor, make sure that all components listed below are included in your package.

Qty.	Description	Item number
1	Zero filter for oil vapor sensors	A554 1203
1	Teflon hose with metal sleeves and connectors	A554 3318

### Steps:

1. Observe the flow direction sign printed on the filter label.
2. As shown in the below illustration, connect the inlet of the device under test to the Outlet of the filter.
3. Connection the Inlet of the filter with the compressed air supply.



## 5 Maintenance

- Always close the inlet and outlet of the filter with the closing caps.
- If the filter cannot produce zero oil vapor content any more, the filter material needs to be replaced. SUTO offers a replacement kit (A554 1208). For more information, see the appendix.
- Do not use or leave the product in particularly dirty or dusty environment.

## 6 Appendix--Replacing the filter material

A554 1208 is the replacement kit of the zero filter for the oil vapor sensor.

### 6.1 Deliverables



Qty.	Description	Item number
1	A pack of activated carbon particles (filter material)	A554 1208
4	Filter pads	
1	Metal mesh	

## 6.2 Procedures

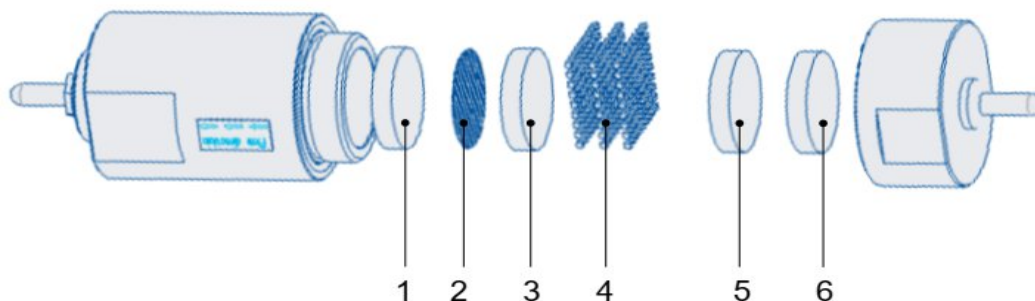
Replacing the filter material shall always be performed by technical engineers or staff with a similar domain knowledge.

1. Wear protective gloves to prevent contaminating the materials.
2. Unscrew the device using two spanners.



3. Take out the contents inside the device housing.
4. Clean the inner housing walls and the connectors. To clean the metal parts, please use 99.9% Ethanol. Do never use other cleaner (e.g. WD-40) as they might introduce additional oil into the process.

- Put the contents in the replacement kit into the device housing in the order shown in the following figure.



**Legend:**



- Screw the device tightly using two spanners.
- Store the device in a clean environment to prevent external contaminations.

## 7 Disposal or waste



The used filter material does not belong to household waste!

The filter material, components, and packings must be disposed according to your local statutory requirements. The dispose can also be carried by the manufacturer of the product, for this please contact the manufacturer.

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