#### **AVENTICS Series 553 Air flow sensor**

With the AVENTICS Series 553 Inline-air-flo probe you have a device that performs accurate measurements of volume air-flow in compressed air.



## Technical data

Industry Industrial

Switching principle diaphragm principle

Nominal flow Qn max., standard 1000 l/min

Mounting orientationAnyMax. working pressure10 barMin. ambient temperature5 °CMax. ambient temperature50 °CMin. medium temperature5 °CMax. medium temperature50 °C

Medium Compressed air

Max. particle size 50 µm Min. oil content of compressed air 0 mg/m<sup>3</sup> 1 mg/m<sup>3</sup> Max. oil content of compressed air Electrical connection 2, type Plug Electrical connection 2, thread size M12x1 Electrical connection 2, number of poles 8-pin Electrical connection 2, coding A-coded Precision (% of full scale value) ± 2 % Max. current consumption 300 mA

Response time	< 15 ms
Protection class	IP54
Weight	1.2 kg

### Material

Housing material Aluminum Part No. 5530011200

#### **Technical information**

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

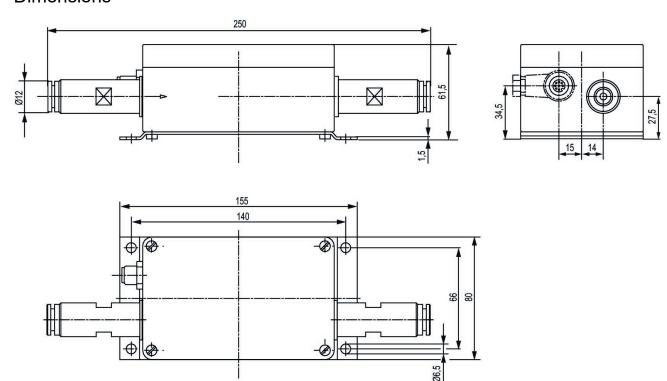
The protection class is only ensured when the plug is mounted properly. For detailed information, see operating instructions.

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

The oil content of compressed air must remain constant during the life cycle.

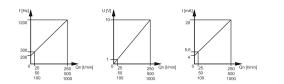
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

#### **Dimensions**



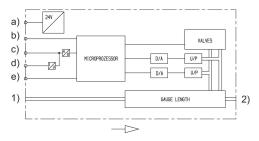
5530011200

## Characteristics



The output signal for the air flow sensor can be selected as a frequency signal, voltage or current. Shield is connected to plug body.

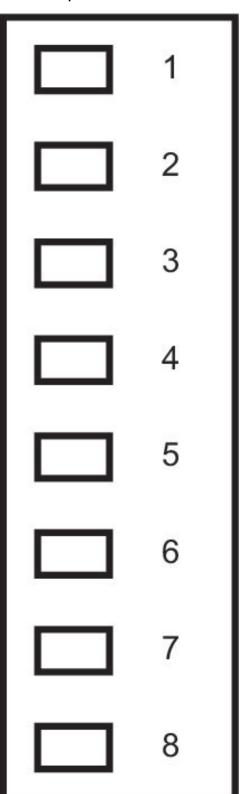
# Functional diagram



a) supply voltage b) frequency output c) voltage output d) current output e) zero point adjustment

<sup>1)</sup> Input 2) Output

Plug M12, 8-pin



Pin assignments

Pin	Function status
1	Supply Voltage
2	0 V
3	frequency output
4	zero point adjustment
5	Voltage output
6	current output +
7	current output -