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better measurement



SCHMIDT® Flow Sensor
SS 20.261
Instructions for Use

SCHMIDT® Flow Sensor SS 20.261

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Subject to modifications

1 Important information

The instructions for use contain all required information for a fast commissioning and a safe operation of the **SCHMIDT® Flow Sensor SS 20.261**:

- These instructions for use must be read completely and observed carefully, before putting the unit into operation.
- Any claims under the manufacturer's liability for damage resulting from non-observance or non-compliance with these instructions will become void.
- Tampering with the device in any way whatsoever - with the exception of the designated use and the operations described in these instructions for use - will forfeit any warranty and exclude any liability.
- The unit is designed exclusively for the use described below (see chapter 2). In particular, it is not designed for direct or indirect protection of personal or machinery.
- **SCHMIDT Technology** cannot give any warranty as to its suitability for certain purpose and cannot be held liable for accidental or sequential damage in connection with the delivery, performance or use of this unit.

Symbols used in this manual

The symbols used in this manual are explained in the following section.



Danger warnings and safety instructions – read carefully!

Non-observance of these instructions may lead to injury of personnel or malfunction of the device.

General note

All dimensions are indicated in mm.

2 Application range

The **SCHMIDT® Flow Sensor SS 20.261** (article number: 526 335) is designed for stationary measurement of the flow velocity as well as the temperature of pure¹ air and gases at working pressure of up to 10 bar.

The sensor is based on the measuring principle of a thermal anemometer and measures the mass flow of the measuring medium as flow velocity which is output in a linear way as standard velocity² w_N (unit: m/s), based on standard conditions of 1013.25 hPa and 20 °C. Thus, the resulting output signal is independent from the pressure and temperature of the medium to be measured. The sensor is designed for the use inside closed rooms and is not suitable for outdoor use.



When using the sensor outdoors, it must be protected against direct exposure to the weather.

3 Mounting instructions

General information on handling

The sensor **SS 20.261** is a precision instrument with high measuring sensitivity. In spite of the robust construction of the sensor tip soiling of the inner sensor element can lead to distortion of measurement results (see also chapter 8). During procedures that could yield soiling like transport, mounting or dismounting of the sensor it is recommended to place the enclosed **SCHMIDT Technology** protective cap on the sensor tip and remove it only during operation.



During processes with enhanced risks of soiling such as transport the protective cap should be placed onto the sensor tip.

Systems with overpressure

The **SS 20.261** is designed for an working overpressure up to 10 bar. As long as the medium to be measured is operated with overpressure, make sure that:

- There is no overpressure in the system during mounting.



Mounting and dismounting of the sensor in pipes can be carried out only as long as the system is **in depressurized state**.

¹ No chemically aggressive parts / abrasive particles. Check suitability in individual cases.

² Corresponds to the actual flow velocity under standard conditions.

- Only appropriately pressure-tight mounting accessories are used.



Only use proper pressure-tight mounting accessories (e. g. Teflon tape).

- Appropriate safety precautions are taken to avoid unintended discarding of the sensor due to overpressure.



Attention: Risk of injuring if compression fitting is loosened under pressure!

If there are leaks in the sensor or its compressing fitting (CF) during operation, depressurize the system immediately and replace sensor.

General installation conditions

The sensor should preferably be installed in horizontally positioned pipes. A downward flow with low flow speeds³ ($< 1 \text{ m/s}$) can lead to increased deviations and must be avoided for this reason.



Avoid installation in a pipe or chamber with downward flow because the lower measuring range limit can rise significantly.

The sensor measures the flow velocity correctly only in the direction given (arrow) on the enclosure and the sensor head. Make sure that the sensor is adjusted in flow direction; a tilting⁴ of up to $\pm 3^\circ$ is allowed.



The sensor measures unidirectional and must be adjusted correctly relative to the flow direction.

A sensor mounted in opposite direction of the flow direction leads to wrong measuring values (too high).



Due to system characteristics the lower measuring range limit of the sensor is 0.2 m/s .

The center of the chamber head is the actual measuring point of the flow measurement and must be placed in the flow as advantageous as possible, i.e. in the middle of the pipe (see Figure 1). Therefore this point is also used for specification of probe length L (see Figure 3).



Always position the sensor head, if possible, in the middle of the pipe or shaft.

³ In case of vertical downdraft and maximum overpressure of 8 bar.

⁴ Measurement deviation $< 1 \%$

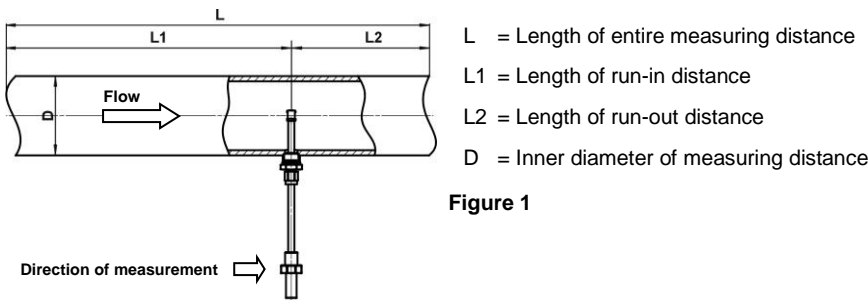
Installation with low disturbance

Local turbulences of the medium can cause distortion of measurement results. To achieve an accurate measurement the flow profile should be laminar/non-turbulent at the point of measurement (see chapter 9 *Technical data*).



Correct measurements require quiet flow, as low-turbulence as possible.

The best way to achieve this is to ensure that you have sufficient straight lengths upstream (“Run-in distance”) and downstream (“Run-out distance”) of the installed sensor (see installation drawing, Figure 1).



We recommend that the sensor is installed with distances according to Table 1 downstream and upstream of any source of disturbance (e.g. a bend, fan, valve, damper or line size change) to ensure a laminar/nonturbulent flow profile.

Flow obstacle upstream of measuring distance	Minimum length of distance	
	Run-in L1	Run-out L2
Light bend (< 90°)	10 x D	5 x D
Reduction / expansion / 90° bend or T-junction	15 x D	5 x D
Two 90° bends in one plane (2-dimensional)	20 x D	5 x D
Two 90° bends (3-dimensional change in direction)	35 x D	5 x D
Shut-off valve	45 x D	5 x D

Table 1

This table lists the minimum values required in each case.
If the listed straight conduit lengths cannot be achieved, measurement accuracy may be impaired or additional measures must be applied⁵.
by the use of flow rectifiers.

⁵ Alternatively, flow rectifiers could be used, e.g. honeycomb made of plastic or ceramics.
Then the profile factors specified in Table 2 may become void.

Calculation of volume flow

If the cross section area of the pipe is known, the output signal of the measured flow velocity w_N can be used to calculate the standard volumetric flow of the medium.

For this purpose, an average flow velocity \bar{w}_N , that is constant over the pipe's cross-section, is calculated with the help of the profile factor⁶ PF, which is dependent on the pipe's inner diameter D:

$A = \frac{\pi}{4} \cdot D^2$	D	Inner diameter of pipe [m]
$\bar{w}_N = PF \cdot w_N$	A	Cross-section area of pipe [m ²]
$\dot{V}_N = \bar{w}_N \cdot A \cdot 3600$	w_N	Standard flow velocity in the middle of pipe [m/s]
	\bar{w}_N	Average flow velocity in pipe [m/s]
	PF	Profile factor (for pipes with circular cross-sections)
	\dot{V}_N	Standard volumetric flow [m ³ /h]

Table 2 lists profile factors and volume flow measuring ranges (with certain sensor measuring ranges) for standard pipe diameters.

Due to the similar situation to a circular pipe, the volume flow in a rectangular duct can be calculated by using its hydraulic diameter D_H (equivalent to a circular pipe, see Figure 2):

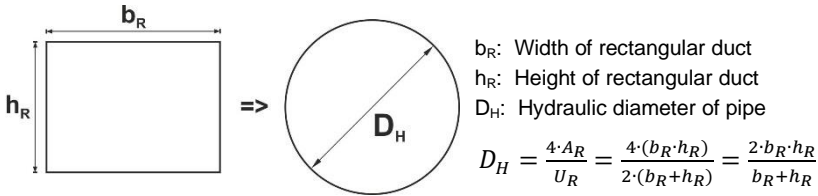


Figure 2

According to this, the volume flow \dot{V}_N in a retungular duct is calculated:

$A_H = \frac{\pi}{4} \cdot D_H^2 = \pi \cdot \left(\frac{b_R \cdot h_R}{b_R + h_R} \right)^2$	A_R	Cross-section area of rectangular duct [m ²]
$\bar{w}_N = PF \cdot w_N$	A_H	Cross-section area of equivalent pipe [m ²]
$\dot{V}_N = \bar{w}_N \cdot A_H$	w_N	Flow velocity in the middle of duct [m/s]
$= PF \cdot \pi \cdot \left(\frac{b_R \cdot h_R}{b_R + h_R} \right)^2 \cdot w_N$	\bar{w}_N	Average flow velocity in equivalent pipe [m/s]
	PF	Profile factor of equivalent pipe

⁶ Considers the flow profile and the sensor obstruction.

Diameter of measuring pipe				Profile faktor PF	Volumetric flow [m³/h]			
Nominal size	Norm value		Inner [mm]		Min. @ 0.2 m/s	@ sensor measuring range [m/s]		
	DN	[inch]				40 m/s	60 m/s	90 m/s
25	25	1	26.0	0.796	0.30	61	91	137
			28.5	0.796	0.37	73	110	165
	32		32.8	0.796	0.48	97	145	218
		1 1/4	36.3	0.770	0.57	115	172	258
40	40	1 1/2	39.3	0.748	0.65	131	196	294
			43.1	0.757	0.80	159	239	358
			45.8	0.763	0.91	181	272	407
50	50	2	51.2	0.772	1.14	229	343	515
			54.5	0.775	1.30	260	391	586
			57.5	0.777	1.45	291	436	654
			64.2	0.782	1.82	365	547	820
65	65	2 1/2	70.3	0.786	2.20	439	659	988
			76.1	0.792	2.59	519	778	1,167
80	80	3	82.5	0.797	3.07	614	920	1,380
100	100	4	100.8	0.804	4.62	924	1,386	2,079
110			107.1	0.806	5.23	1,046	1,568	2,353
125	125	5	125.0	0.812	7.17	1,435	2,152	3,229
130	125		131.7	0.814	7.98	1,597	2,395	3,593
150	150	6	150.0	0.817	10.40	2,079	3,119	4,678
160			159.3	0.820	11.77	2,353	3,53	5,295
170			182.5	0.825	15.54	3,108	4,661	6,992
190			190.0	0.826	16.86	3,372	5,059	7,588
200	200		206.5	0.829	19.99	3,998	5,997	8,996
	250		260.4	0.835	32.02	6,404	9,605	14,408
300	300		309.7	0.840	45.56	9,112	13,668	20,502
	350		339.6	0.842	54.91	10,982	16,474	24,711
400	400		388.8	0.845	72.23	14,446	21,670	32,505
450	450		437.0	0.847	91.47	18,294	27,440	41,161
500	500		486.0	0.850	113.53	22,706	34,059	51,089
550	550		534.0	0.852	137.39	27,477	41,216	61,824
600	600		585.0	0.854	165.27	33,054	49,581	74,371

Table 2

SCHMIDT Technology provides a convenient calculation tool to compute standard flow velocity or standard volume flow in circular pipes or rectangular ducts for all its sensor types and measuring ranges on its homepage:

www.schmidt-sensors.com

or

www.schmidttechnology.de

Mounting

The sensor is installed using its integrated compression fitting. Normally, a sleeve is welded as a connecting piece onto a bore in the medium-guiding pipe, in which the external thread (G½ or Rp½) of the compression fitting is screwed (see Figure 3).

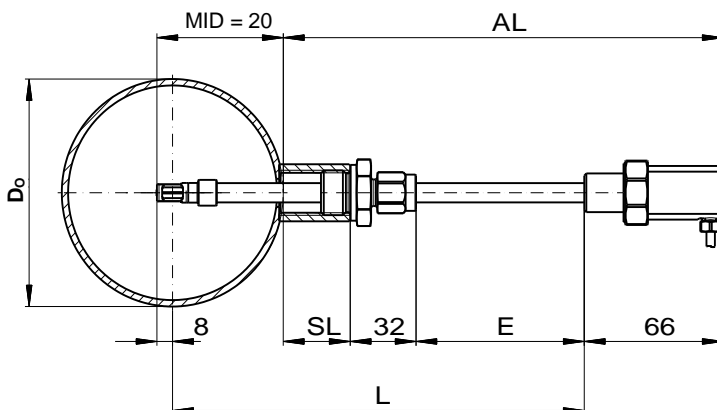


Figure 3

<i>L</i>	Probe length [mm]	<i>D_o</i>	Outer diameter of pipe [mm]
<i>SL</i>	Length of weld-in sleeve [mm]	<i>E</i>	Sensor tube setting length [mm]
<i>AL</i>	Projecting length [mm]	<i>MID</i>	Minimum immersion depth [mm]



Before mounting depressurize systems with overpressure media.

- Bore a mounting opening in pipe wall.
- Weld connecting piece with an internal thread G $\frac{1}{2}$ resp. Rp $\frac{1}{2}$ centered above the mounting opening on the pipe.
Recommended length of sleeve: 15 ... 40 mm
- Slacken spigot nut of compression fitting (SW17) to such an extent that sensor probe can be moved without jamming and push it up carefully to the dead end of the sensor head.
- Depending on type of compression fitting:
 - G $\frac{1}{2}$: Check if O-ring seal is installed and fitted tightly.
 - Rp $\frac{1}{2}$: Wrap thread with common sealing tape, e. g. made of PTFE.
- Plug holding bracket of pressure protection chain into thread of compression fitting.
- Remove protective cap from sensor tip.
- Screw threaded part of compression fitting one or two turns by hand into connecting piece.
- In case of a longer sensor probe push it partly into the pipe then screw thread firmly into connecting piece (hexagon SW27).



Always avoid bending of the probe during screwing.

- Observe correct seat and alignment of the chain bracket.
- Carefully slide probe so that the center of the chamber head is placed at the optimum measuring position in the middle of the pipe.
- Tighten spigot nut slightly by hand so that sensor is fixed.
- Turn sensor manually at its enclosure into required direction and precise position while maintaining immersion depth.
- Hold sensor and tighten spigot nut by turning the fork wrench (SW17) a quarter of a turn.
Recommended torque: 10 ... 15 Nm
- Check the set angular position carefully, for example by means of a spirit level at the octagonal part of the sensor enclosure.



Angular deviation should not be wider than $\pm 3^\circ$ relative to the ideal measuring direction.

Otherwise, measurement accuracy may be affected.

- Make sure to close the safety chain before pressure is applied.
The clasp should be hooked in so that the chain sags as little as possible (see Figure 4).

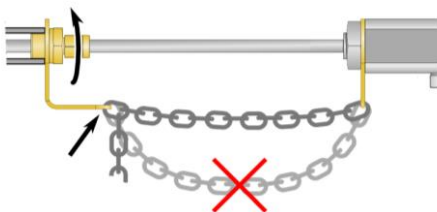


Figure 4: Safety chain installation

Mounting accessories

Type / article No.	Drawing	Mounting
Clamp ⁷ a.) 524 916 b.) 524 882		<ul style="list-style-type: none"> - Internal thread Rp$\frac{1}{2}$ - Material: <ul style="list-style-type: none"> a.) Steel, black b.) Stainless steel 1.4571

Table 3

⁷ Must be welded.

4 Electrical connection

The sensor is equipped with a 4-pin cable firmly fixed to the sensor enclosure (pin assignment refers to Table 4).

Wire color	Designation	Function
Brown (BR)	Power	Operating voltage: $+U_B$
White (WH)	GND	Operating voltage: Mass
Yellow (YE)	Analog w_N	Output signal: Flow velocity
Green (GN)	Analog T_M	Output signal: Temperature of medium

Table 4



During electrical installation ensure that no operating voltage is applied and inadvertent activation is not possible.

The connection cable has a length of 5 m.

Operating voltage

For proper operation the sensor requires DC voltage with a nominal value of 24 V with permitted tolerance of $\pm 10\%$. It is protected against a polarity reversal; typical operating current is 40 mA, at maximum⁸ 60 mA.



Only operate sensor within the defined range of operating voltage (24 V DC $\pm 10\%$).

Undervoltage may result in malfunction; overvoltage may lead to irreversible damage to the sensor.

The specifications for the operating voltage apply to the connection of the sensor. Voltage drops generated due to cable resistances must be considered by the customer.

Analog outputs

Both analog outputs, signaling flow velocity and temperature of the medium, are designed as current interface (4 ... 20 mA), featuring permanent short-circuit protection with respect to the supply voltage $+U_B$.

The apparent ohmic resistance R_L of max. 300 Ω must be connected between the signal output and GND (see Figure 5).

Load capacity C_L is limited to a maximum of 10 nF.

⁸ Both signal outputs deliver 21.6 mA at minimum supply voltage.

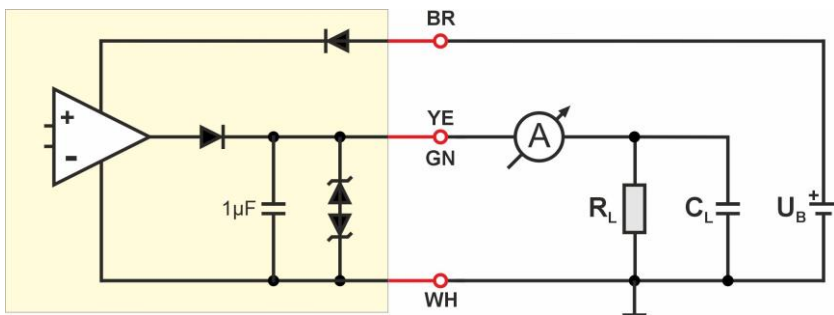


Figure 5

5 Signalization

Light emitting diodes

The sensor **SS 20.261** indicates its functional state via two light emitting diodes (LED; see Figure 6 and Table 5).



Figure 6

Operating state	LED 1	LED 2
Supply voltage: None, wrong polarization, too low	○	○
Sensor ready for operation	●	○
Supply voltage beyond specification range <i>or</i> Medium temperature beyond specification range	◐	○
Sensor defective	●	◑

Table 5

○ LED off

● LED on: green

◐ LED flashes (approx. 2 Hz): green

◑ LED flashes (approx. 2 Hz): red

Analog outputs

- Error signaling
The current interface delivers 2 mA⁹.
- Representation of flow velocity
The measuring range of the corresponding measuring value is mapped in a linear way to the signaling range of its analog output.
For measuring flow velocity the range reaches from zero up to the selectable end of the measuring range $w_{N,max}$ ($= 100 \% \pm 20 \text{ mA}$ in Figure 7). A higher flow up to 110 % ($\pm 21.6 \text{ mA}$) is still output in a linear way, moreover the signal remains constant.

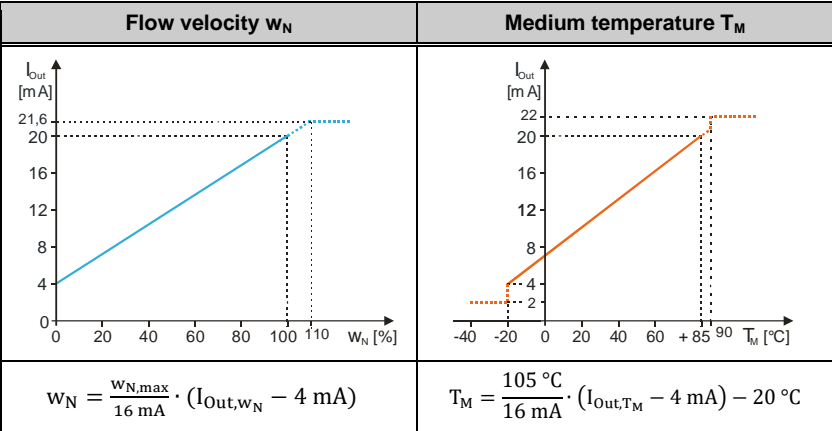


Figure 7 Representation specification for measuring functions

- Representation of medium temperature
The measuring range of the medium temperature is -20 to +85 °C. Falling below this temperature causes the emission of an error message of this signal output (2 mA). An exceeded temperature is output in a linear way up to 90 °C, moreover the temperature output leaps to approx. 22 mA and the flow output drops to 2 mA.



Even short-term overshooting of the operating medium temperature can cause irreversible damage of the sensor.



For a correct temperature measurement, the flow velocity at the sensor head must be $> 2 \text{ m/s}$. Below this, a temperature value, which is too high, is indicated.

⁹ In accordance with NAMUR specification.

6 Startup

Prior to switching on the **SCHMIDT® Flow sensor SS 20.261**, the following checks have to be carried out:

- Immersion depth of the sensor probe and alignment of the housing.
- Tightening of the fastening screw of the compression fitting, correct installation of safety chain.
- Correct electrical connection in the field (switch cabinet or similar).



For measurements in media with overpressure check if the fastening screw is tightened properly (10 ... 15 Nm).

Make sure to close safety chain before pressure is applied.

Five seconds after switch-on the sensor is ready for operation. If the sensor has another temperature than the ambient, this time is prolonged until the sensor has reached its ambient temperature.

If the sensor has been stored at very cold conditions, before commissioning you have to wait until the sensor and its housing have reached ambient temperature.

7 Information concerning operation

The sensor is optimized for an operating overpressure¹⁰ of 8 bar_{op}. If it is used with lower pressures, the detection limit (DL) rises slightly. Higher pressures can cause a minimum output signal at zero flow.

Example: DL (8 bar_{op}) = 0.2 m/s

DL (0 bar_{op}) = 0.8 m/s



Soiling or other gratings on the sensor cause distortions of measurements.

Therefore, the sensor must be checked for soiling at regular intervals and cleaned if necessary.



(Condensating) liquid on the sensor causes serious measurement distortions.

After drying the correct measuring function is restored.

¹⁰ Maximum overpressure: 10 bar

Eliminating malfunctions

The following Table 6 lists possible errors (error images).

A description of the way to detect errors is given. Furthermore, possible causes and measures to be taken to eliminate them are listed.

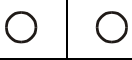
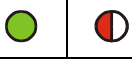

Error image	Possible causes	Troubleshooting
 $I_{wN} \& I_{TM} = 0 \text{ mA}$	Problems with supply voltage U_B : ➤ No U_B available ➤ U_B has wrong polarity ➤ $U_B < \text{approx. } 6.5 \text{ V}$ Sensor defective	➤ Sensor cable connected correctly? ➤ Supply voltage connected? ➤ Supply cable broken? ➤ Power supply unit large enough? Send in sensor for repair
 $I_{wN} \& I_{TM} = 2 \text{ mA}$	Sensor element defective	Send in sensor for repair
 $I_{wN} = 2 \text{ mA}$ $I_{TM} = 2/22 \text{ mA}$	Supply voltage beyond specification range (too low/high) Medium temperature beyond specification range (too low/high)	Check supply voltage and set it correctly Check medium temperature and set it correctly
Flow signal w_N is too large/small	Measuring range too small /large Medium to be measured does not correspond to air Sensor element soiled Sensor installed in opposite direction to flow direction	Check sensor configuration Check measuring resistance Foreign gas factor correct? Clean sensor tip Check installation direction
Flow signal w_N is fluctuating	Supply voltage unstable Mounting conditions: ➤ Sensor head is not in optimal position ➤ Run-in/run-out distance is too short Strong fluctuations of pressure or temperature	Check supply voltage Check mounting conditions Check operating parameters

Table 6

8 Service information

Maintenance

Soiling of the sensor head may lead to distortion of the measured value. Therefore, the sensor head must be checked for contamination at regular intervals. If contaminations are visible, the sensor can be cleaned as described below.

Cleaning of sensor head

If the sensor head is soiled or dusty, it could be cleaned carefully by means of compressed air.



The sensor head is a sensitive measuring system. During manual cleaning proceed with great care.

In case of persistent deposits, the sensor chip as well as the interior of the chamber head can be cleaned carefully by using residue-free drying alcohol (e.g. isopropyl alcohol) or soapy water with special cotton swabs.



Figure 8 Suitable cotton swabs with small cleaning pads

Suitable for this purpose are cotton swabs, which have small, flattened and soft cotton pads (e.g. see Figure 8). The flat side of that pad should fit just between chamber wall and sensor chip to allow the exertion of a controlled, minimal pressure on the chip. Conventional cotton swabs are too big and therefore can break the chip.



Under no circumstances do attempt to pressurize the chip with greater force (e.g. by swabs with thick head or lever movements with its stick).

Mechanical overloading of the sensor element can lead to irreversible damage.

The stick may only be moved with great care back and forth in parallel to the chip surface to rub off the dirt. If necessary, use several cotton swabs. Before recommissioning, the sensor head must be completely dry. The drying process can be accelerated by gently blowing.

If this procedure does not help, the sensor must be sent to **SCHMIDT Technology** for cleaning or repair.

Transport / Shipment of the sensor

Before transport or shipment of the sensor, the delivered protective cap must be placed onto the sensor tip.

Avoid soiling or mechanical stress.

Calibration

If the customer has made no other provisions, we recommend repeating the calibration at a 12-month interval.

For this, the sensor must be sent in to the manufacturer.

Spare parts or repair

No spare parts are available, since a repair is only possible at the manufacturer's facilities. In case of defects the sensors must be sent in to the producer for repair.

- **A completed declaration of decontamination must be attached.**

The appropriate form "Declaration of decontamination" is enclosed with the sensor and can also be downloaded at

www.schmidt-sensors.com

tab "Service & Support for Sensors", heading "Product downloads".

If the sensor is used in systems important for operation, we recommend you to keep a replacement sensor in stock.

Test certificates and material certificates

Every new sensor is accompanied by a certificate of compliance according to EN 10204-2.1. Material certificates are not available.

Upon request, we shall prepare, at a charge, a factory calibration certificate, traceable to national standards.

9 Technical data

Measuring parameters	Standard velocity w_N of air, based on standard conditions 20 °C and 1013.25 hPa Medium temperature T_M
Medium to be measured	Air or nitrogen, other gases on request
Measuring range w_N	0 ... 40 / 60 / 90 m/s
Lower detection limit w_N	0.2 m/s
Measuring accuracy ¹¹ w_N - Standard - Precision	$\pm(5\% \text{ of measured value} + [0.4\% \text{ of final value; min. } 0.02 \text{ m/s}])$ $\pm(3\% \text{ of measured value} + [0.4\% \text{ of final value; min. } 0.02 \text{ m/s}])$
Response time (t_{90}) w_N	3 s (jump from 5 to 0 m/s)
Temperature gradient w_N	< 8 K/min (at $w_N = 5 \text{ m/s}$)
Measuring range T_M	-20 ... +85 °C
Measuring accuracy ¹² T_M	$\pm 1 \text{ K}$ (0 ... 40 °C) $\pm 2 \text{ K}$ (remaining measuring range)
Operating temperature - Medium - Electronics	-20 ... +85 °C -20 ... +70 °C
Humidity range	Measuring mode: Non-condensing (< 95 % RH)
Operating overpressure	$\leq 10 \text{ bar}$
Operating voltage U_B	24 V _{DC} $\pm 10\%$ (reverse voltage protected)
Current consumption	Typ. < 40 mA, max. 60 mA
Analog outputs - Type current output - Maximum load	2 pcs. (short-circuit protected) 4 ... 20 mA (2 mA error signalization) $R_L \leq 300 \Omega$ / $C_L \leq 10 \text{ nF}$
Electrical connection	Non-detachable connecting cable, pigtail ¹³ , 4-pin, length ¹⁴ 5 m
Maximum cable length	100 m
Type of protection	IP54 (enclosure), IP64 (probe)
Protection class	III (SELV or PELV)
Mounting tolerance	$\pm 3^\circ$ (relative to flow direction)
Min. tube diameter	DN25
Mounting	Integrated compression fitting G½ or R½
Probe length L	200 / 350 mm
Weight	250 g max.

Table 7

¹¹ Under conditions of the reference

¹² $w_N \geq 2 \text{ m/s}$

¹³ With cable end sleeves

¹⁴ If extending connection cable: Use wire cross-sections $\geq 0.25 \text{ mm}^2$

10 Declarations of conformity

SCHMIDT Technology GmbH herewith declares in its sole responsibility, that the product

SCHMIDT® Flow Sensor SS 20.261

Part-No. **526 335**

is in compliance with the appropriate



European guidelines and standards

and



UK statutory requirements and designated standards.

The corresponding declarations of conformity can be download from **SCHMIDT®** homepage:

www.schmidt-sensors.com

www.schmidttechnology.de



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