

Simply a question of  
**better measurement**



## SCHMIDT® Flow Switch SS 20.200

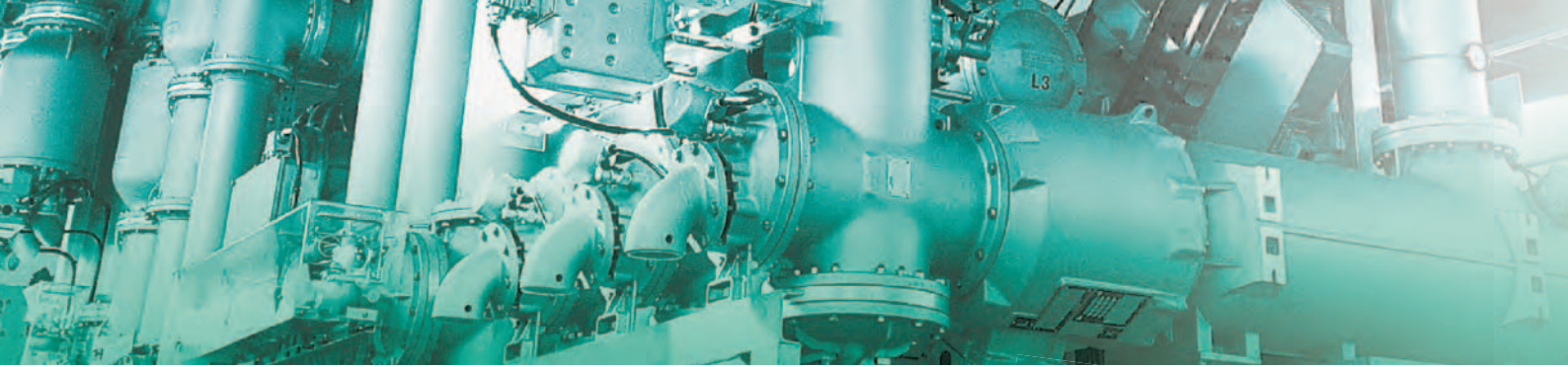
Reliable and safe,  
independent of temperature

Industrial processes

Cleanroom/pharmaceuticals

Ventilation/air-conditioning





# SCHMIDT® Flow Switch SS 20.200

## Reliable signalization of flow limit values

For many applications the detection of exceeding and shortfall of air/volume flows is a process and quality relevant factor. In order to document exact threshold values, common flow switches, working as "yes/no-indicators", are insufficient. For demanding applications the SS 20.200 is the ideal solution.

## Technical Base: A flow sensor

The SCHMIDT® Flow Switch SS 20.200 is based on the thermal measuring principle. The sensor is of the same high technology like a flow sensor and can be used for over pressures up to 10 bars. The output signal is different however: Instead of an analog signal a switching signal is put out by the Flow Switch. The medium temperature is detected and integrated. Thus the SS 20.200 is temperature compensated. In practise that means flow detection independent of temperature variations.

## The dumbbell head technology

With the dumbbell head technology used and the high flow angle (radial: 360°, axial: ±45°), the Flow Switch can be positioned in the gas flow safely and quickly. It can be easily installed by means of a flange or a press fitting. The switching point can be fixed either on site by means of a setting potentiometer or as customized pre-programmed value. When reaching the threshold the switch can be used optionally as closing or opening contact.

## Protected from dust and aggressive gases

Due to the patented dumbbell head the Flow Switch can also be used in dusty gases. In case the sensor tip gets dirty it can be cleaned by the user without any problems. On request the flow switch can be delivered with a special protective coating that makes it resistant to aggressive mediums like salt acid, acetone, sulfuric acid and a lot more.

Typical applications of the SCHMIDT® Flow Switch SS 20.200 dumbbell head technology include:

- Monitoring the minimum air flow (ventilator control)
- Ensuring the minimum volume flow in exhaustions
- Avoiding the shortfall of volume flows in compressed air equipments
- Control of supply air in cooling air channels (protection of equipment)
- Compliance with minimum speed in drying processes
- Control of filters



## Everything in view

Dual LED's clearly indicate the sensor is energized and that the operation is "OK". The setting potentiometer is located behind the protective cover.

With protective coating



## Accessories



Compression fitting for atmospheric pressure  
stainless steel Art. No. 532 160    brass Art. No. 517 206

Weelding sleeve  
steel Art. No. 524 916  
stainless steel Art. No. 524 882



## Order information SCHMIDT® Flow Switch SS 20.200

	Description	Article number				
Basic sensor	SCHMIDT® Flow Switch SS 20.200; with swichting output, cable length 2 m, <b>without</b> protective coating	504 475 -	X	Y	S	N xx
	SCHMIDT® Flow Switch SS 20.200; with swichting output, cable length 2 m, <b>with</b> protective coating	505 504 -	X	Y	S	N xx
	<b>Options</b>					
Mechanical type	Sensor length 100 mm		1			
	Sensor length 200 mm		2			
	Sensor length 350 mm		3			
	Sensor length 500 mm		4			
Measuring ranges and calibration	Measuring range 0 ... 1 m /s			1		
	Measuring range 0 ... 2,5 m /s			2		
	Measuring range 0 ... 10 m /s			3		
	Measuring range 0 ... 20 m /s			4		
Signalization Relais/LED	Flow velocity $w_N > \text{threshold}$ : r elais closes /LED on				1	
	Flow velocity $w_N > \text{threshold}$ : r elais opens <sup>1)</sup> /LED on				2	
	Flow velocity $w_N < \text{threshold}$ : r elais closes <sup>1)</sup> /LED on				3	
	Flow velocity $w_N < \text{threshold}$ : r elais opens <sup>1)</sup> /LED on				4	
Setting threshold	with setting potentiometer, without pre-setting					P 00
	with setting potentiometer, selectable pre-setting of 5 up to 95 % of measuring value					P 05 ... 95
	selectable pre- programming (not changeable) from 5 up to 95 % of measuring range					F 05 ... 95
	Description	Article number				
Accessories	Mounting flange made of galvanized steel	301 048				
	Wall mounting flange stainless steel, PTFE-clamping ring	520 181				
	Compression fitting stainless steel G ½, atmospheric pressure	532 160				
	Compression fitting brass G ½, atmospheric pressure	517 206				
	Compression fitting stainless steel G ½, max. 10 bar, with protection against pressure losses	524 919				
	Compression fitting brass G ½, max. 10 bar, with protection against pressure losses	524 891				
	Welding sleeve steel G ½, according to EN 10241, 5 pieces	524 916				
	Welding sleeve stainless steel G ½, according to EN 10241, 2 pieces	524 882				

<sup>1)</sup> In case of an alarm the configuration "relay opens" is called "fail safe" because a voltage breakdown as well as a cable break can also be signalized as alarm.

### SCHMIDT Technology GmbH

Feldbergstrasse 1  
78112 St. Georgen/Germany

Phone +49 (0) 77 24/89 90  
Fax +49 (0) 77 24/89 91 01

sensors@schmidttechnology.de  
www.schmidttechnology.de