

SCHMIDT® 流量传感器

Flow Sensor

SS 20.260



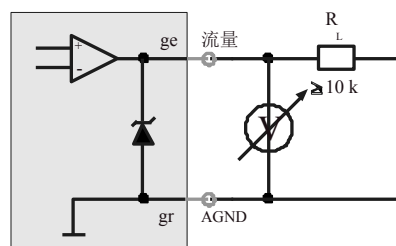
技术参数	
技术 / 设计	插入式热式流量计
量程 w_N	2,5 / 10 / 20 / 40 / 50 m/s 在 20 °C 和 1013,25 hPa
测量下限	0,2 m/s
测量精度 w_N	±(测量值的 5 % +量程的 0,4 %)
量程 T	-20 ... 85 °C / 120 °C
测量精度 T	±2 °C
工作压力	大气压 (700 ... 1.300 hPa)
工作温度	介质: -20 ... +85 °C / +120 °C 电子元件: -20 ... +70 °C
响应时间 (t_{90})	3 s
安装长度	50 / 100 / 200 / 350 / 500 mm
固定	外螺纹 M 18 x 1 可选 螺纹套管接头 ¹⁾
模拟输出	0 ... 10 V / 0 ... 20 mA / 4 ... 20 mA 线性
显示	LED 绿色: 准备就绪 LED 红色: 传感器错误
电源电压	24 V DC ±20 %
电流消耗	30 mA max. (ohne Last am Ausgang)
电气连接	电缆 4-针, 固定连接, 长度 2 m
外壳材料	PBT, 玻璃钢
传感器材料	铂, 玻璃钝化
探针管材料	不锈钢 1.4571
重量	100 g
保护等级 ^t	IP 65 (外壳) IP 65 (探针管)

Technical data	
Technology / design	thermal anemometer as insertion design
Measuring range w_N	2.5 / 10 / 20 / 40 / 50 m/s 8.2 / 32.8 / 65.6 / 131.2 / 164 ft/s at 20 °C and 1013.25 hPa
Lower range limit	0.2 m/s / 0.66 ft/s
Measurement inaccuracy w_N	±(5 % of measured value + 0.4 % of measuring range)
Measuring range T	-20 ... 85 °C / 120 °C
Measurement inaccuracy T	±2 °C
Pressure range	atmospheric (700 ... 1,300 hPa)
Operating temperature	medium: -20 ... +85 °C / +120 °C electronics: -20 ... +70 °C
Response time (t_{90})	3 s
Mounting length	50 / 100 / 200 / 350 / 500 mm 20 / 39 / 79 / 138 / 197 inch
Mounting	thread M 18 x 1, opt. tube throughpassage ¹⁾
Analogue output	0 ... 10 V / 0 ... 20 mA / 4 ... 20 mA linear
Display	LED green: operation status LED red: malfunction
Supply voltage	24 V DC ±20 %
Current consumption	30 mA max. (without load at output)
Electrical connection	cable 4-pole, pigtail, length 2 m
Material housing	PBT, glass fibre reinforced
Material sensor element	platinum, glass passivated
Material sensor tube	stainless steel 1.4571
Weight by mass	100 g
Protection type	IP 65 (housing) IP 65 (sensor tip and tube)

1) 产品编号 / Article No. 517 206

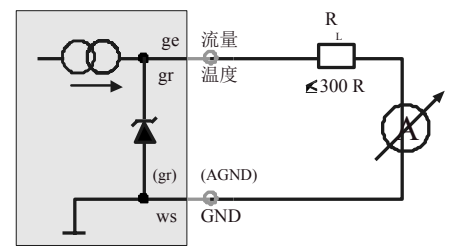
接线图 / Connecting diagram

说明	功能	颜色
Designation	Function	Colour
Power	电源电压 Operating voltage	棕色 brown
GND	地线电源 Mass operating voltage	白色 white
A _{Out, Flow}	模拟输出流量 Analogue output flow	黄色 yellow
A _{Out, Temp}	模拟输出 温度 Analogue output temperature	绿色 green
oder / or AGND	模拟输出地线 Mass velocity signal	



模拟输出 / Analogue output:

0 ... 10 V, $R_L \geq 10 \text{ k}\Omega$



模拟输出 / Analogue output:

0 ... 20 mA / 4 ... 20 mA, $R_L \leq 300$

产品编号	安装长度	量程 w_N	输出	连接	工作温度
Article No.	Mounting length	Measuring range w_N	Output	Connection	Operational temp.
506 690 - XYZAT	X	Y	Z 流量 / flow 温度 / temperature	A	T
	1 50 mm	1 0 ... 2.5 m/s	1 0 ... 10 V	1 电缆 / cable	1 -20 ... +85 °C
	2 100 mm	2 0 ... 10 m/s	2 4 ... 20 mA		2 -20 ... +120 °C
	3 200 mm	3 0 ... 20 m/s	3 0 ... 20 mA		
	4 350 mm	4 0 ... 40 m/s	4 4 ... 20 mA 4 ... 20 mA		
	5 500 mm	5 0 ... 50 m/s	5 0 ... 20 mA 0 ... 20 mA		

2) 不具备的组合 Z = 4, 5 / not available in combination with Z = 4, 5

3) 不具备的组合 Z = 1, 2, 3 / not available in combination with Z = 1, 2, 3