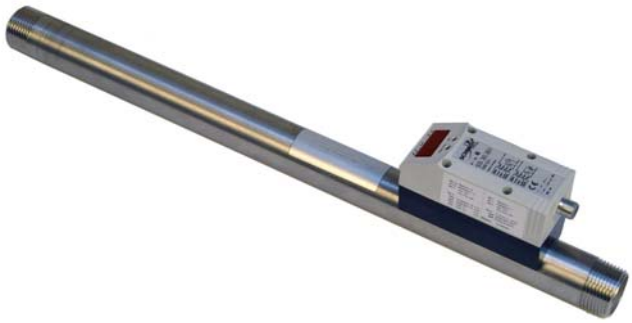
SCHMIDT® Flow Sensor SS 30.301



Mat. No. 508 521

Product description

Flow sensor for volume flow measurements in compressed air and gases with integrated LED display and configurable outputs usable as analog, switching or pulse outputs. Two buttons for user configuration. Display of flow rate, total flow and medium temperature.

Applications

- Consumption measurement of compressed air
- Inert gas flow measurement
- Consumption measurement of compressed air tools
- Consumption measurement of air driven machines

Product advantages

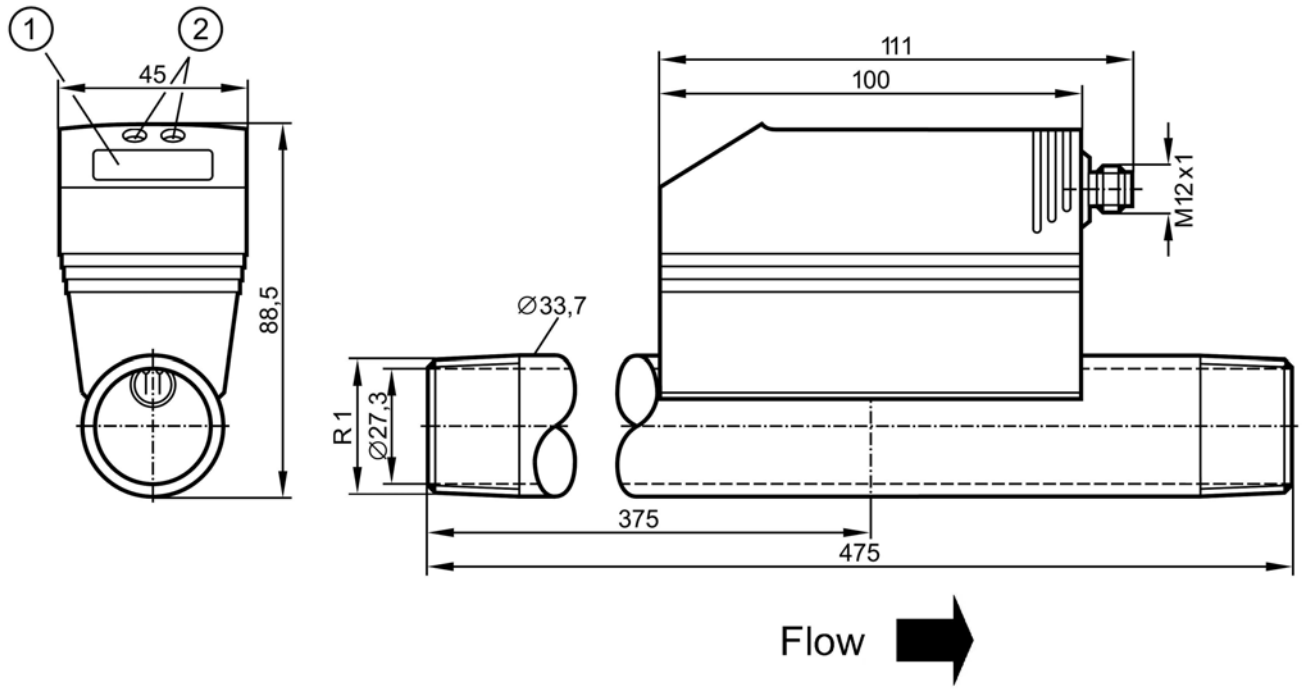
- Simple installation
- Direct measuring of normal volume flow
- Small pressure loss
- Display of flow rate, total flow and medium temperature

Technical data

Technology / Design	Thermal flow sensor in Inline design
Measuring range $w_{N,}$	229 normal m^3/h at 20 °C and 1013.25 hPa
Lower range limit	0.8 normal m^3/h
Measurement inaccuracy	+/- (3 % of measured value + 0.3 % of measuring range)
Measuring direction	➡
Medium	Air, Nitrogen Other gases on request
Medium resistance	Air quality class 141 or 344 according DIN 8573-1
Pressure range	16 bar max.
Operating temperature	Medium: 0 … +60 °C Electronics: 0 … +60 °C
Response time (T_{90})	0.1 s
Pipe diameter / length	27,3 mm inside x 475 mm
Nominal size	DN 25
Mounting / Process connection	Male thread R 1

Output 1	switching output configurable as 4 ... 20 mA
Output 2	Switching output configurable as pulse output switching current 250 mA
Display	LED red, 7 segment, 4 digits, 7mm
Supply voltage	19 ... 30 V DC
Current consumption	100 mA max. (without load at output)
Electrical connection	Plug 4 pin, M12
Protection type	IP 65
Material housing	PBT glass fibre reinforced
Material sensor element	Ceramics, glass passivated
Material sensor tube	Stainless steel 1.4301
Accessories (to be ordered separately)	Connection cable 5m Mat. No. 300 722
	Female connector w. screw terminals Mat.No. 301 008

Dimensional drawing



1 = LED display 4 digits, 2 = programming buttons