

Flow Sensors

Flow monitoring of gaseous media

For air-conditioning and ventilation, exhaust air systems, suction systems
(also aggressive media)

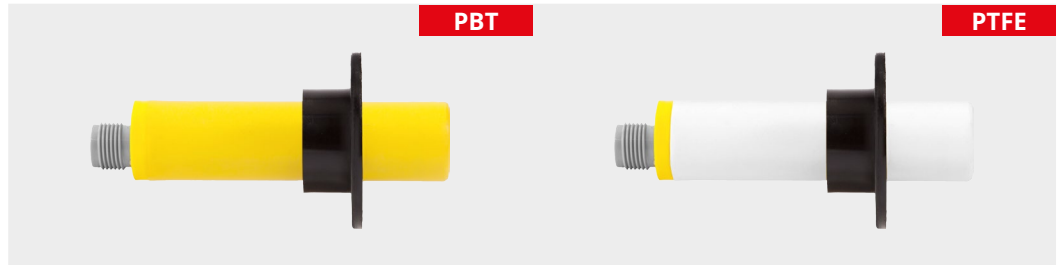


Flow Sensors

Perfect monitoring of gaseous media

Proxitron flow sensors are compact sensors which monitor the flow speed of gaseous media. The air flow sensors are installed as stationary sensors into the flow to be monitored. Their calorimetric working principle and integrated evaluation electronics allow maintenance-free operation. The PTFE plastic housing is ideal also for applications with aggressive media, as for example acid fumes. The flow limit value can be adjusted manually with a potentiometer, or set automatically, simply by pressing a teach button, to 50% of the detected flow speed; the teach setting will ensure safe detection of a flow failure. Flow sensors with an analog output enable flow monitoring in the range of 0-16 m/sec.

- Monitoring of gaseous media
- Conditioning and ventilation
- Exhaust air systems in electroplating
- Suction units in wet-chemical processes
- Biogas plants or transformers
- Bearings cooling systems of drive motors
- Valve positioning in distribution systems
- Flow speed adjustable range 0 – 16 m/sec
- Adjustment via potentiometer or teach
- Switching outputs PNP n.c. + n.o.
- Analog output 4 - 20 mA
- Fully enclosed in plastic housing
- Maintenance-free, low investment cost
- Corrosion-free, chemical resistance



Setting range switching point	1,5 - 10 m/sec	1,5 - 10 m/sec
Switching point adjustment	potentiometer	potentiometer
Output	PNP normally closed + normally open	PNP normally closed + normally open
Type	FKM 240.18 G S4	FKMT 240.18 G S4
Monitoring range (switching point)	3 - 16 m/s (1,5 - 8 m/s)	3 - 16 m/s (1,5 - 8 m/s)
Switching point adjustment	Teach (switching point 50% flow value)	Teach (switching point 50% flow value)
Output	PNP normally closed + normally open	PNP normally closed + normally open
Type	FKM 241.18 G S4	FKMT 241.18 G S4
Monitoring range analog	0 - 16 m/sec	0 - 16 m/sec
Output	analog 4 – 20 mA	analog 4 – 20 mA
Type	FKM 231.194 S4	FKMT 231.194 S4
General technical data		
Supply voltage	24 V DC	24 V DC
Connection	plug S4 (M12x1)	plug S4 (M12x1)
Housing [mm]	Ø20 x 80	Ø20 x 84
Housing material	PBT	PTFE (resistant to aggressive media)
Ambient temperature max.	60 °C	60 °C
Mounting flange included	yes	yes

Proxitron flow sensors can be used also for higher flow velocities. Higher velocities will be detected by the sensor as the max flow in the monitoring range, and evaluated accordingly.