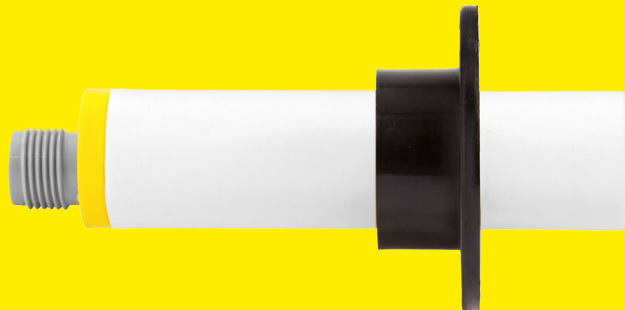# Flow Sensors

Flow monitoring of gaseous media

For air-conditioning and ventilation, exhaust air systems, suction systems

Flow Sensors

Perfect monitoring of gaseous media

Proxitron air flow sensors are compact devices which monitor the flow speed of a gaseous medium. They are installed as stationary devices into the flow to be monitored. Their calorimetric working principle and integrated evaluation electronics allow a maintenance-free operation. The plastic housing is ideally suited for applications with aggressive media as well. In extreme conditions, such as acid fumes, a PTFE housing can be used. The flow limit value can be adjusted with a potentiometer or by means of a button (Teach-In function) which automatically sets a limit value in proportion to the existing flow. Flow sensors with an analog output enable a flow monitoring in the range of 0-16 m/s.

- 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 / NPN n.c. / n.o.**
- **Analogue output 0 - 10 V or 4 -20 mA**
- **Fully enclosed in plastic housing**
- **Maintenance-free, low investment cost**
- **Corrosion-free, chemical resistance**

	PBT	**PTFE**
Flow speed	**1,5 - 10 m/sec**	**1,5 - 10 m/sec**
Switching point adjustment	potentiometer	potentiometer
NPN n.c. type	**FKM 230.10 G S4**	**FKMT 230.10 G S4**
NPN n.o. type	**FKM 230.11 G S4**	**FKMT 230.11 G S4**
PNP n.c. type	**FKM 230.12 G S4**	**FKMT 230.12 G S4**
PNP n.o. type	**FKM 230.13 G S4**	**FKMT 230.13 G S4**
Switching point adjustment	teach	teach
PNP n.c. type	**FKM 231.12 G S4**	**FKMT 231.12 G S4**
PNP n.o. type	**FKM 231.13 G S4**	**FKMT 231.13 G S4**
Flow speed	**0 - 16 m/sec**	**0 - 16 m/sec**
Analogue output 0 – 10 V type	**FKM 230.19 S4**	**FKMT 230.19 S4**
Analogue output 4 – 20 mA type	**FKM 231.194 S4**	**FKMT 231.194 S4**
Supply voltage	24 V DC	24 V DC
Connection *	plug S4 (M12x1)	plug S4 (M12x1)
Housing [mm]	Ø20 x 80	Ø20 x 80
Housing material	PBT	PTFE
Ambient temperature	60 °C	60 °C

*also cable versions available, in 2, 5, 10, 15 or 20 m length

Accessories	**connection cable S4**	**pressure-tight installation**	**pipe-mounting**
Type	**ST 043/3-2**	**HF 2**	**HF 80**
Description	length 2 m	M32 gland	for pipes Ø 60 - 90 mm
Type	**ST 043/3-5**		**HF 100**
Description	length 5 m		for pipes Ø > 90 mm

Proxitron
SENSORS MADE IN GERMANY

P94E 0124