

Dräger PSD 3000 System Components

The Dräger PSD 3000 is a sampling unit for continuous sampling of gas and air mixtures. Combined with Dräger Gas Detectors, the Dräger PSD 3000 serves as a sampling system for gas monitoring purposes. The internal vibrating diaphragm pump has a superior life expectancy, due to the lack of rotating parts.



ST-748-2006

Benefits

Dräger PSD 3000

The PSD 3000 can be used for most industrial gases. An electronic circuit monitors the flow rate internally and advises if the flow rate in the input line falls below a predefined minimum threshold. The device offers a flexible programmable messaging of the low-flow signal to the control system.

Fast and easy installation

The sampling unit can be placed either before or behind a gas transmitter depending on application requirements. Two instant tube fittings allow a fast and easy connection of stiff sample lines without tools or manual force. Electrically the sampling unit is installed between the gas transmitter and the central control system. There are cable glands and terminals provided for the respective connections. The 4 to 20 mA signal from the transmitter as well as a separate 24 V wire can be passed through the sampling unit.

Operation

A multicoloured LED indicates the operational status of the device. The LED indicates conditions such as normal operation, a blocked sampling line or a broken supply voltage connection. The flow rate of the sampling line can be adjusted internally to adapt to special needs in certain circumstances. A dust filter protects the sampling pump from dust and aerosols.

Low-flow monitor

The PSD 3000 generates a signal in case the flow in the inlet line drops below a predefined value. This signal can alternatively be transmitted via the 4 to 20 mA line to the control system or by a separate switching contact. The latter option is useful if a digital communication between the transmitter and the controller should be maintained during a low-flow condition. In addition the operation LED indicates with a red colour that the lowflow condition has been triggered.

Technical Data

Type	Electronic sampling unit with vibrating diaphragm pump	
Voltage	(DC) 24 V ± 2.4 V	
Power	< 6.5 W	
Flow rate	Adjustable 0.3 l/min up to approx. 1.0 l/min Factory default approx. 0.75 l/min	
Low-flow alarm	0.3 l/min	
Switching contact rating	Ohmic loads only $U_{max} = 30$ V DC, $I_{max} = 2$ A, $P_{max} = 60$ W	
Ambient condition	Operation 0 °C to 50 °C; 32 °F to 120 °F 0 %rh to 95 %rh, non condensing During storage – 40 °C to 70 °C; – 40 °F to 160 °F	
Materials used in the gas path	Hose connection	Metal, NBR
	Hoses	FKM, PTFE
	Hose connection	PP
	Dust filter	PE, PP
	Internal restrictor	Glass
	Pump	PP, EPDM, silicone
Enclosure	IP 54; ABS	
Dimensions	Approx. 123 x 147 x 83 mm (W x H x D)	
Weight	Approx. 0.65 kg	
CE markings	Electromagnetic Compatibility (89/336/EEC)	
Certificate	RoHS (2002/95/EG) (Restriction of the use of certain hazardous substances in electrical and electronic equipment)	
Cable glands (2x)	M 20; cross section 6 to 12 mm	
Wire cross section	0.5 to 1.5 mm ²	
Hose connection	Inside diameter 4 mm, outside diameter 6 mm	

Ordering Information

Dräger PSD 3000	83 19 270
Sampling point filter (glassfibre/cellulose)	68 06 743
Filter insert	67 37 352
Gassing adapter DrägerSensor	68 06 978
Gassing adapter DrägerSensor AC	68 09 380

Notes

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