

## Dräger SAM 3100 3200 System Components

The Dräger sampling units were designed to measure the concentrations of toxic and potentially explosive substances in locations where access is difficult. All required components are already fitted to a mounting plate. To achieve maximum flexibility for a variety of applications, all Dräger transmitters with process adapter can be used.



## Benefits

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### Easy installation

All electrical connections lead directly to the components, and cables can be routed individually to suit the situation in hand. High quality compression fittings on the mounting plate make it quick and easy to connect the sample gas or air extraction line.

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### Straightforward one-man assembly

The sampling system comes fully assembled, and the plate can be attached in just a few simple steps by one person. Pre-drilled holes for fixing screws make easy work of wall-mounting and customer-specific assembly. The sample gas tubes can be installed quickly and easily without the need for screwdrivers.

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### Variable sampling concepts

The Dräger SAM 3100 and Dräger SAM 3200 units come equipped as standard with a non-explosion-proof sampling pump. From the same series, an explosion-proof pump can be chosen as an option. If process air is available, another alternative is to use a wear-free – and therefore maintenance-free – injector with pressure regulator. The gas flow to be measured is reliably monitored via the ring initiator with integrated connection housing.

## System components

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### Dräger PIR 7000

The Dräger PIR 7000 is an explosion proof point infrared gas detector for continuous monitoring of flammable gases and vapours. With its stainless steel SS 316L enclosure and drift-free optics this detector is built for the harshest industrial environments, e.g. offshore installations.

## System components



### Dräger Polytron® 7000

The Dräger Polytron® 7000 is a gas detector that can satisfy all toxic and oxygen gas measurement applications on a single platform. It is meeting the requirements of the compliance market as well as the high specification requirements of customized solutions.

## Technical Data

<b>Mounting plate</b>	Stainless steel, fitted with measurement head on request (see separate data sheet)	
<b>Dimensions</b>	500 x 500 mm	
<b>Gas pump</b>		
Air transport	Via membrane valves	
Flow rate	7.5 L/min	
Max. neg. pressure	140 mbar	
Max. pos. pressure	1.5 bar	
Weight	3.1 kg	
Voltage / frequency	230 V AC / 50 Hz	
Wattage	70 watts	
Current consumption	0.45 A	
<b>Filter element</b>		
Filter element length	75 mm	
Filter surface area	70 cm <sup>2</sup>	
Deadspace volume	65 cm <sup>3</sup>	
Materials	Filter head	PVDF/PTFE
	Filter body	Glas
	Filter element	PTFE
Connections	3 x G 1/4" (1x sealed)	
<b>Flowmeter</b>		
Measurement accuracy	± 2.5 % as per VDI/VDE 3513	
Betriebsdruck	10 bar max.	
Connections	1/4" NPT internal thread	
Cone	Borosilicate glass	
Float	Nickel chromium steel	
Calibration valve	Stainless steel, 3 x connectors for 6 mm, Swagelok	
<b>Tubing</b>	6 x 1 mm PTFE (standard)	
	6 mm PVDF (standard)	
<b>Screw connections</b>		
<b>Supply of electrical components</b>		
Motor overload switch	PKZM0-0.4 for pump to be installed in switching cabinet by customer	
Switch amplifier	KFD2-SR2-Ex1.W, 24 V DC, for analysis Flow monitoring ring initiator, to be installed in switching cabinet by customer	

## Ordering Information

Due to the wide range of possible order configurations, no binding order numbers can be quoted here. Please contact your local Dräger representative.

## Notes

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## Notes

### CORPORATE HEADQUARTERS

Drägerwerk AG & Co. KGaA  
Moislinger Allee 53–55  
23558 Lübeck, Germany  
[www.draeger.com](http://www.draeger.com)

### Manufacturer:

Dräger Safety AG & Co. KGaA  
Revalstraße 1  
23560 Lübeck, Germany

Locate your Regional  
Sales Representative at:  
[www.draeger.com/contact](http://www.draeger.com/contact)



### SYSTEM CENTERS

#### P. R. CHINA

Draeger Safety Equipment  
(China) Co., Ltd.  
A22 Yu An Rd, B Area,  
Tianzhu Airport Industrial Zone,  
Shunyi District,  
Beijing 101300  
Tel +86 10 80 49 80 00  
Fax +86 10 80 49 80 05

#### GERMANY

Dräger Safety AG & Co. KGaA  
Revalstrasse 1  
23560 Lübeck  
Tel +49 451 882-2794  
Fax +49 451 882-4991

#### UNITED KINGDOM

Draeger Safety UK Ltd.  
Blyth Riverside Business Park  
Blyth, Northumberland NE24 4RG  
Tel +44 1670 352 891  
Fax +44 1670 544 475

### REGION EUROPE SOUTH

Dräger Safety France SAS  
25, rue Georges Besse  
92182 Antony Cedex, France  
Tel +33 1 46 11 56 00  
Fax +33 1 40 96 97 20  
[Europe.South@draeger.com](mailto:Europe.South@draeger.com)

#### USA

Draeger Safety, Inc.  
505 Julie Rivers, Suite 150  
Sugar Land, TX 77478  
Tel +1 281 498 1082  
Fax +1 281 498 5190  
[info.gds@draeger.com](mailto:info.gds@draeger.com)

### REGION ASIA PACIFIC

Draeger Safety Asia Pte Ltd  
25 International Business Park  
#04-20/21 German Centre  
Singapore 609916  
Tel +65 6308 9400  
Fax +65 6308 9401  
[asia.pacific@draeger.com](mailto:asia.pacific@draeger.com)

### REGION CENTRAL AND SOUTH AMERICA

Dräger Panama Comercial  
S. de R.L.  
Complejo Business Park,  
V tower, 10th floor  
Panama City  
Tel +507 377-9100  
Fax +507 377-9130  
[contactcsa@draeger.com](mailto:contactcsa@draeger.com)

### REGION MIDDLE EAST, AFRICA

Dräger Safety AG & Co. KGaA  
Branch Office  
P.O. Box 505108  
Dubai, United Arab Emirates  
Tel +971 4 4294 600  
Fax +971 4 4294 699  
[contactuae@draeger.com](mailto:contactuae@draeger.com)