

Dräger PIR 3000



ST-8026-2005

The Dräger PIR 3000 is an explosion proof infrared gas transmitter for continuous monitoring of combustible gases and vapours. Based on a stainless steel SS 316 enclosure as well as on a good measuring performance, this transmitter offers an excellent price-performance-ratio.

Entering infrared technology

Technological preferences of infrared technology (such as fail safe operation and immunity to poison) are known and valued in the market since years. The Dräger PIR 3000 offers this plus now for an economic use, aligned with a long lifetime of more than 15 years and reduced maintenance costs.

Advanced flexibility

The customer can choose from three different target gases – methane, propane and ethylene – all listed in one internal gas library. Individual linearisation curves offer temperature-compensated readings.

And if the target gas changes after commissioning? Or if only one stock for different applications is required? – No issue, the target gas can be changed easily by the customer himself via a magnetic wand with just a few turns.

The mounting orientation is completely flexible and the transmitter is approved according to worldwide preferred standards: ATEX, IECEx, UL and CSA. Weather protection is secured by the attached splash guard, included in delivery and certified with IP 67.

Suitable for harshest environments

Based on an outstanding product quality, the DrägerSensor IR is equipped with a robust stainless steel enclosure and provides high reliability and excellent measuring performance, e.g. in terms of fast response and long-term stability. The temperature range is specified from – 40 to + 65 °C, and, due to the heated optics, the sensor can be operated in humid environments from 0 to 100 %RH.

A wide range of accessories including calibration adapter, process adapter and duct mount set meet the advanced requirements for special applications.

Universal 4 to 20 mA interface

With its universal 4 to 20 mA interface, the Dräger PIR 3000 can be connected to any 4 to 20 mA control system available in the market (e.g. Dräger REGARD). A fault signal is provided with 1 mA for unmistakable interpretation.

Already mounted junction boxes can be further used because of metric M25 as well as 3/4" NPT thread available for the transmitter.



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Dräger PIR 3000:

Smart infrared 4 to 20 mA gas transmitter for reliable detection of combustible gases and vapours.

TECHNICAL DATA

Type	Explosion proof gas transmitter with infrared sensor technology	
Working principle	Temperature-compensated infrared absorption	
Gases and ranges	Methane, propane, ethylene: 0 to 100 %LEL (further substances on request)	
Measuring performance (methane)	Digital resolution	0.5 %LEL
	Repeatability	$\leq \pm 2$ %LEL
	Response time $t_{0...90}$	≤ 30 seconds (with splash guard and calibration adapter)
Electrical data	Output signal	4 to 20 mA
	Failure signal	1 mA
	Power supply	10 to 30 V DC
	Power consumption	≤ 2 W
Ambient conditions	Temperature	- 40 to + 65 °C / - 40 to + 150 °F
	Pressure	700 to 1300 hPa / 23.6 to 32.5 inch Hg
	Humidity	0 to 100 %RH
Enclosure	Material	Stainless steel SS 316
	Connecting thread	M25 or 3/4" NPT
	Weight	550 g
	Size	170 mm x Ø 37 mm / 6.7" x Ø 1.45"
	Ingress protection	IP 65 and IP 67
Approvals	ATEX	II 2G EEx d(e) IIC T6, II 2D IP6X T80 °C
	IECEx	Ex d(e) IIC T6, DIP A21 IP6X T80 °C
	UL	Class I, Div. 1, Groups A, B, C, D, Class II, Div. 1, Groups E, F, G
	CSA	Class I, Div. 1, Groups A, B, C, D
	CE mark: electromagnetic compatibility (directive 89/336/EEC)	

ORDER INFORMATION

Dräger PIR 3000 (M25)	68 10 810
Dräger PIR 3000 (NPT)	68 11 080
Dräger PIR 3000 complete set e	68 11 160
Dräger PIR 3000 complete set e2	68 11 270
Dräger PIR 3000 complete set d	68 11 180

All transmitters are equipped with splash guard and calibration adapter.
The complete set contains a junction box, already pre-assembled.

SYSTEMS CENTERS

P. R. CHINA

Beijing Fortune Draeger
Safety Equipment Co., Ltd.
Yu An Lu A 22, B Area
Beijing Tianzhu Airport
Industrial Zone
Houshayu Shunyi District
Beijing 101300
Tel +86 10 80 49 80 00
Fax +86 10 80 49 80 05

FRANCE

Dräger Safety France S.A.S.
3c, Route de la Fédération
67025 Strasbourg Cedex
Tel +33 388 40 76 76
Fax +33 388 40 76 67

SINGAPORE

Draeger Safety Asia Pte. Ltd.
67, Ayer Rajah Crescent # 06 03
139950 Singapore
Tel +65 68 72 92 88
Fax +65 67 73 20 33

UNITED KINGDOM

Draeger Safety UK Ltd.
Kitty Brewster Industrial Estate
Blyth, Northumberland NE24 4RG
Tel +44 1670 352 891
Fax +44 1670 540 033

USA

Draeger Safety, Inc.
505 Julie Rivers, Suite 150
Sugar Land, TX 77478
Tel +1 281 498 1082
Fax +1 281 498 5190

Dräger Safety AG & Co. KGaA

Revalstrasse 1
23560 Luebeck, Germany
Tel +49 451 882 2794
Fax +49 451 882 4991
www.draeger-safety.com