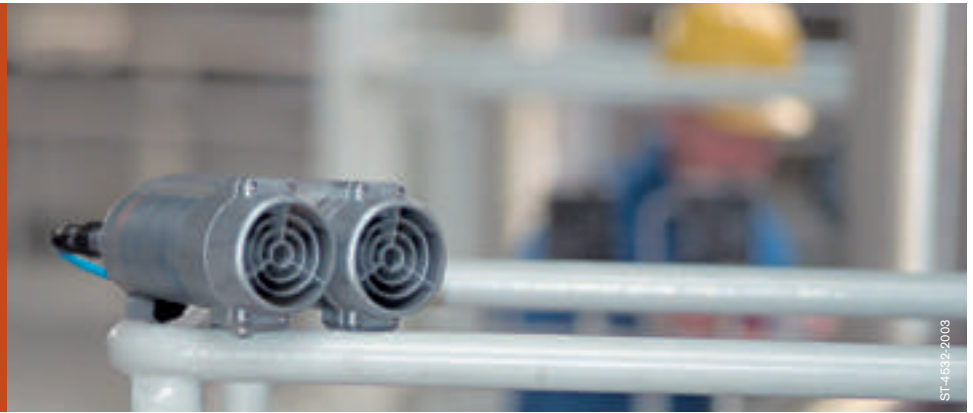


Dräger Polytron GD30R



The Dräger Polytron GD30R is a cost effective open path gas detector. Designed for indoor applications, the detector uses the extremely reliable infrared technology for the detection of a wide range of gaseous hydrocarbons. These include the alkane series from methane to hexane, propylene, methanol and ethanol. A special non-certified version of the detector for use in non-hazardous areas is also available, not requiring safety barriers.

Simple, quick installation and commissioning

One person can easily set-up, align and commission the system without the need for special training or skills. After an initial coarse adjustment by eye, an alignment module (included), connected between the receiver and a digital voltmeter, is used to monitor the level of signal strength that the receiver sees from the transmitter. This is adjusted by movement of the detector to provide the optimum signal level, before a zero routine is carried out.

Single point cabling

The use of a retro-reflector panel ensures that only single point cabling is required. This reduces installation cost and time.

Low maintenance

A factory calibration during the manufacturing process of the Dräger Polytron GD30R means that further routine calibration is not required once the unit is installed, aligned and zeroed. The only requirements are periodic checks of the optics and system alignment.

Methane and propane calibrations as standard

Two plug-in modules containing calibration details are supplied with each detector. This offers the user flexibility to select the required gas calibration.

Supplied as a system

Each detector is supplied complete with two gas calibration modules, a mounting bracket, a robust retro-reflector panel, a pair of 2 m / 6.6 ft connection cables and an alignment module.

Worldwide approvals

The Dräger Polytron GD30R can be used worldwide with the following approvals ATEX, IECEx and CSA NRTL/C.

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Dräger Polytron GD30R:
Open path gas detector
for indoor applications.

TECHNICAL DATA

Type	Open Path gas detector utilizing dual wavelength infrared absorption technique		
Gases	Wide range of hydrocarbons including the alkane series from methane to hexane, propylene, ethanol and methanol.		
Range	0 to 100 % FSD of 5 LEL*m		
Factory calibration	Methane or propane, selectable		
Operating distance	6 to 30 m / 20 to 98 ft. separation of transceiver and reflector panel		
Analog output (current source)	Measuring	4 to 20 mA	
	Beam block	1 to 3 mA	
	Fault	< 1 mA	
Supply voltage	24 VDC nominal. Supplied via IS interface, certified version 15 to 30 VDC non-certified version		
Power consumption	Max. 10 W, for certified version dependent on make and model of IS interface		
Response time t_{95}	< 10 seconds, following a step change in path-integral concentration		
Ambient conditions	Temperature	- 20 to + 60 °C / - 5 to + 140 °F	
	Pressure	ambient	
	Humidity	0 to 99 %RH, non-condensing	
Enclosure	IP 66, housings and connectors		
Size (W x H x D, approx.)	290 x 120 x 200 mm / 11.4" x 4.6" x 7.9", each transmitter and receiver		
Weight (approx.)	3.6 kg / 7.9 lbs, including wall bracket		
Approvals	ATEX	Transmitter	II 2G EEx ib e IIB T4, -20 to + 60 °C, Pi = 1.2 W
		Receiver	II 2G EEx ib IIB T4, -20 to + 60 °C, Pi = 1.2 W
	IECEX	Transmitter	Ex ib e IIB T4, Ta + 60 °C, Pi = 1.2 W
		Receiver	Ex ib IIB T4, Ta + 60 °C, Pi = 1.2 W
	CSA NRTL/C	Class I, Div 1, Group C, D	
		Class II, Div 1, Group E, F, G	

ORDER INFORMATION

Dräger Polytron GD30R, transceiver; ATEX, IECEx certified	23 50 410
Dräger Polytron GD30R, transceiver; CSA NRTL/C certified	23 50 411
Dräger Polytron GD30R, transceiver; not certified	23 50 412

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