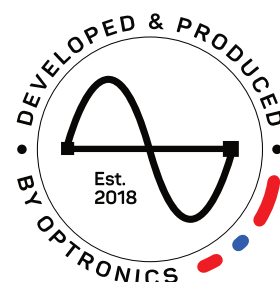
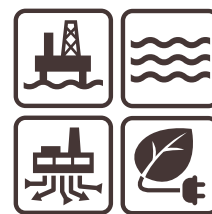


PG11 Optical Point Detector

Hydrocarbons



The Optronics PG11 is an explosion proof, rugged Optical Hydrocarbon Gas Detector. PG11 comes with a life-time factory calibration, is easy to install and commission and has very limited need for maintenance. The Solid State Infrared SafeSource™ ensures unmatched stability and lifetime and the built-in condition monitoring keeps maintenance and process abruptions at a minimum. Any need for attention is automatically informed to the operator.

A broad range of accessories ensure that the PG11 is ready to be used in most applications from duct mounts to extractive cabinet solutions. All accessories are easy to change should the need arise. Communication interfaces and fieldbuses are available using the OptoCom™ module.

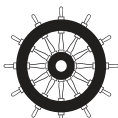
The PG11 is designed for use in SIL2/SC3 systems and to withstand ambient conditions such as extreme temperatures and vibrations, all to ensure "Detection for real safety - for real life"

Features

- Solid State Infrared SafeSource™
- Life-time factory calibration
- Fast response time (T90 < 1.5 s)
- OptoBAS™ for increased signal baseline accuracy
- Designed for SIL2/SC3
- HART7 interface
- Heated sapphire optics
- Multicolor indicator
- Extended input voltage range

Benefits

- 6 years warranty
- 15 years warranty on SafeSource™
- Class leading PFD with proof test intervals up to 5 years
- No field calibration
- OptoCom™ for system integration
- Visual Indicator for local alarms
- One detector - several applications



OPTRONICS
Detection for real safety - for real life

Specifications

Technology

Solid-state Infrared SafeSource™.
Temperature compensated for rugged applications

Gases and measuring ranges

Methane 0 - 100 %LEL, 0 - 100 %Vol
Propane 0 - 100 %LEL
Other gases on request

Calibration

Calibrated at factory, no need for field calibration.

Self-test

Continuous health check of all important HW and SW functions

Performance

Accuracy ± 3%FS
Repeatability ± 1%FS
Response time T90 = 1.5 sec

Signal output

Current source or sink 4 - 20 mA. Warnings/faults signalled below 4 mA.
OptoCom™ for application specific digital protocols.
HART® for maintenance and configuration.

Ambient conditions

Temperature	Storage	-60 to +75°C / -76 to +167°F
	Operating	-40 to +75°C / -40 to +149°F
Humidity		0 - 100 %RH
Vibration		Resistant to shock and vibration up to 4G

Housing

Ingress Protection	IP66/IP67, Type 4X
Housing material	Stainless steel 316L
Weight	Less than 4 kg
Dimensions	See below

Electrical requirements and characteristics

Field wiring terminals	Stranded or solid wires rated up to 2.5 mm²
Cable gland entry options	Two M20 entries as standard. M25, ½"NPT and ¾"NPT on request
Power requirements	18 - 50 VDC (18-35 VDC for cFMus)
Power consumption	< 3.5W average Soft boot with max 1 A current spikes

Approvals

ATEX/IECEX/INMETRO	Ex db eb IIC T5 Gb Ex db IIC T5 Gb 1Ex db e IIC T5 Gb X Class I Division 1, Groups B, C & D
EAC EX	MED, BV, LR, DnV GL, ABS, Class NK
cFMus	IEC 60079-29-1
Marine	SIL2/SC3 (SIL3 in 1oo2 redundancy)
Performance	
Safety Integrity(IEC61508)	

Additional Accessories

Sunshade	Maintenance kit
Environmental cap	Maintenance Blocking kit
Universal Mount kit	Gas Test Nozzle
Pole mount kit	OptoCom™

For more information contact your local supplier.

Accessories



Mosquito Net

Insect guard with integrated gas nozzle. No need to remove the guard to perform routine testing.



Gas Test kit

Gas test kit for field testing. Separate inlet and outlet so test gas can be ventilated to safe area if needed.



Gas Sampling kit

Snap-in gas sampling kit for extractive solutions. Simple mounting and dismounting for easy access to optical parts. The small volume ensures unmatched fast response of the sampling loop.



Gas Free Bump Test kit

Gas free test kit for safe and easy function and bump testing of detector.



Duct Flange kit

Contact your local dealer for alternatives. Available for most standard JIS, ISO and ANSI flanges.



Remote Gas Test kit

Remote gas test interface for installations where the detector is out of reach.

