GVZ components
Your Sensing Solutions

MLD
GAS DETECTOR
with NevadaNano MPS™ Technology inside

Molecular Leakage Detector

For Methane applications

CH$_4$

The MLD is a cost effective, long life flammables gas detector, based on MPS technology, that reduces maintenance needs and allows the customer to have highly reliable product with the latest technology.

This Methane version has built-in the "gas selectivity" option: the customer can choose to get alarms only for CH$_4$ or for any flammables gas leaks in the area. Highly flexible and reliable, this detector combines the Molecular Property Spectrometry technology with a specific electronic to provide a Modbus, an analog 4-20mA and voltage output.
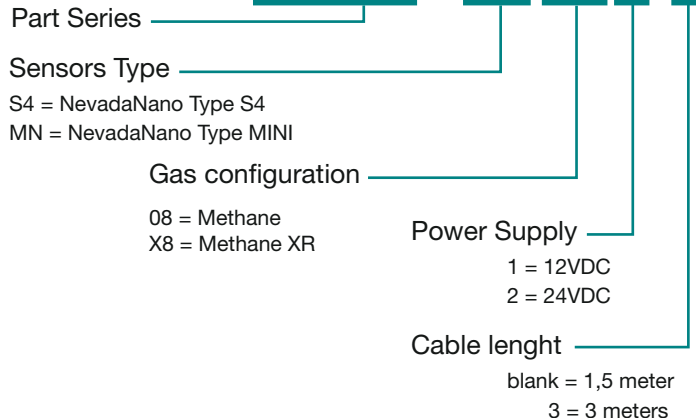
It is also equipped with two relays (Alarm 1 and Alarm 2/Malfunction) to offer a clean signal that can be managed in an intuitive way. It comes with 1,5 or 3 meters cable, unterminated.

Applications

- Leak detection in Oil & Gas piping, drilling, transportation and production
- Mining
- Gas boilers

Part Number Definition

MLD-S4082-3

Part Series

Sensors Type
S4 = NevadaNano Type S4
MN = NevadaNano Type MINI

Gas configuration
08 = Methane
X8 = Methane XR

Power Supply
1 = 12VDC
2 = 24VDC

Cable lenght
blank = 1,5 meter
3 = 3 meters

Features & Benefits

- **No field calibration needed**
- **Immunity to poisoning**
- **No cross sensitivity**
- **Gas recognition and selectivity**
- **Fail Safe (built in diagnostic)**
- **Long life (+15 years without calibration)**
- **Wide Temperature working range (from -40° to +75°C)**
- **High accuracy with built-in Temperature, humidity and pressure sensors**
- **T - Rh - P values available as signals**
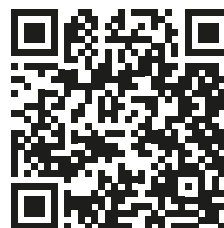- **Multiple digital and analog outputs**

TECHNICAL FEATURES

TECHNICAL DATA	MLD Flammables with NevadaNano Mini	MLD Flammables with NevadaNano S4	MLD Methane Extended Range with NevadaNano S4
Sensor Technology	Molecular Property Spectrometry		
Sensor Type	Mini Flammables	S4 Flammables	S4 Methane XR
Gas Detected	Methane CH_4		
Detection Range	0-100% LEL	0-100% LEL	50 - 1,000,000 ppm
Accuracy	±3%	±3%	±10% error (> 300 ppm)
Response Time (T90)	<20 sec.		
Resolution	0,1% LEL	0,1% LEL	1 ppm
In Flame function	NO	YES - It Can detect gas presence at start-up	NO
Outputs	Digital: Modbus (RS-485) - Analog: 4-20mA - Analog: 0.4-2V - Dry Contacts: 2x Alarm Relays (LOW conc. - HIGH conc./FAULT)		
Visual information	3 x LED (Status, Alarm LOW, Alarm HIGH/FAULT)		
Supply voltage	12 Vdc - 24 Vdc		
Power consumption	35mA average - 50mA peak		
Dimensions	128 x 89 x 22 mm	128 x 89 x 37 mm	128 x 89 x 37 mm
Operating temperature range	from -40 to +75 °C		
Operating humidity range	0 to 100 %RH		
Operating pressure range	80 to 120 kPa		
Certifications & Approvals	CE, EMC, Rohs, IECEx, IEC60335-2-40, ATEX EN60079-0, EN60079-11: Intrinsecally Safe device - Gr.II Cat.3G Ex ic IIA TX Gc On running tests for SIL1/SIL2 according to EN50402 / IEC50271		

MLD-MN
MPS MINI
on board

MLD-S4
MPS S4
on board

More info here

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