

# Molecular Leakage Detector

# CH<sub>4</sub>

For Methane applications



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. It comes in three versions, with NevadaNano S4 or Mini sensor, two with “In Flame Start” 5.0 flammables sensor, which is able to detect gas presence at start up, and one mounts the S4 sensor dedicated to methane with extended range capability.

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.

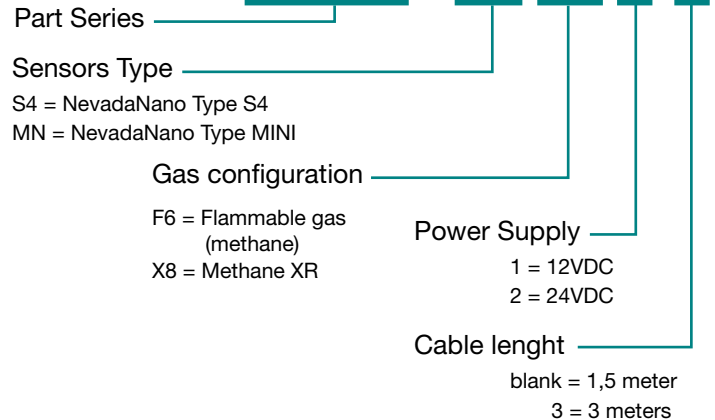
It is also equipped with two relays (Alarm 1 and Alarm 2/Malfunction) to offer a clean signal that can be managed in an intuitive way. It comes with 1,5 or 3 meters cable.

## Applications

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

## Part Number Definition

### MLD-S4X82-3

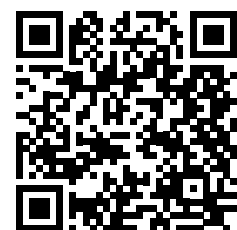


## Features & Benefits

- 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 +70°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-MNF6...)	MLD Flammables with NevadaNano S4 (MLD-S4F6...)	MLD Methane Extended Range NevadaNano S4 (MLD-S4X8...)
Sensor Technology	Molecular Property Spectrometry		
Sensor Type	Mini Flammables	S4 Flammables	S4 Methane XR
Gas Detected	Methane CH <sub>4</sub>		
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	YES	YES	NO
Outputs	Digital: Modbus (RS-485) - Analog: 4-20mA - Analog: 0.1-2.9V 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	Avg. 50mA - Peak: 60mA (12VDC)   80mA (24VDC)		
Dimensions	13.0 x 8.0 x 2,5 cm	13.0 x 8.0 x 4.0 cm	13.0 x 8.0 x 4.0 cm
Operating temperature range	-40° to +70°C (12VDC)   -40° to +60°C (24VDC)		
Operating humidity range	0 to 100 %RH		
Operating pressure range	80 to 120 kPa		
Certifications & Approvals	CE, EMC, Rohs, EN60079-0, EN60079-11, ATEX SIL1/2 conformity according to EN50402 / IEC 50271 / IEC 50270 / IEC61508 ongoing		



More info here