

# MLD

molecular leakage detector

with NevadaNano MPS™ Technology inside

# Molecular Leakage Detector

# H<sub>2</sub>

For hydrogen 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.

This hydrogen version has built-in the “gas selectivity” option: the customer can choose to get alarms only for H<sub>2</sub> 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 the Modbus, the analog 4-20mA and the voltage output.

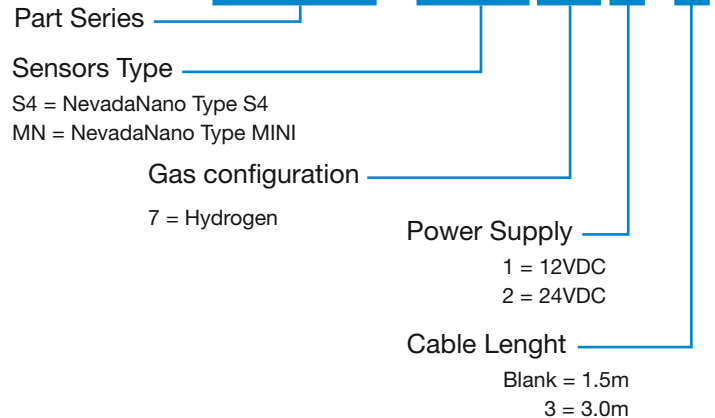
It is also equipped with two relays (Alarm 1 and Alarm 2/Malfunction) to offer a clean signal that can be managed in an intuitive way. It comes with 1,5 or 3 meters cable, without connector.

## Applications

- Fuel cells
- Electrolyzers
- Storage tanks
- Piping
- Boilers
- Hydrogen fuelled engines

## Part Number Definition

# MLD-MN072-3

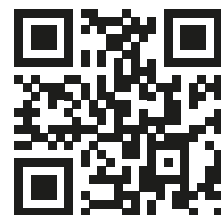


## Features & Benefits

- 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 +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

Sensor Performances	
Technology	Molecular Property Spectrometry by NevadaNano
Gas detected	<b>Hydrogen</b>
Measurement range	0-100% LEL
Accuracy	±5% LEL
Response Time (T90)	<20 sec.
Resolution	0,1% LEL
Lifetime	15+ years
Detector Operating Features	
Signals Output	Gas concentration, Temperature, Humidity, Pressure, Status, Prealarm, Alarm, Fault, Lifetime
Measurement Output	Modbus   4-20mA   0,4-2V   Relays
Visual Information	3 x LED (Status, Prealarm, Alarm/Fault)
Supply Voltage	12-24VDC
Power Consumption	35mA average - 50mA peak
Operating Temperature	-40° to +75°C
Operating Humidity	0 - 100% RH
Operating Pressure	80 to 120 kPa
Protection grade	IP65
Dimensions MLD-MN	128 x 89 x 22 mm
Dimensions MLD-S4	128 x 89 x 37 mm
Certifications & Approvals	CE, EMC, Rohs, ATEX, EN60079-0, EN60079-11 Intrinsically Safe device - Gr.II Cat.3G Ex ic IIC TX Gc On running tests for SIL1/SIL2 according to EN50402 / IEC50271



More info here