

FLAMMABLE & HYDROGEN

METHANE

REFRIGERANTS

CO₂



NevadaNano



NevadaNano

GSS
Gas Sensing Solutions



nisssha
Nissha FIS, Inc.

NevadaNano



GSS
Gas Sensing Solutions

FEATURES

Sensing Element	MPS-Flammable mini or S4
Detection Technology	Molecular Property Spectrometry (MPS)
Gas Detected	Methane, Propane, Isobutane, Ethane, Hydrogen, Methyl Elhyl Ketone.
Features	No calibration required, poison resistant, true LEL mixed gas, automatic gas identification, full environmental compensation
Operating Range	0-100% Rh, -40 to 75°C, 80 to 120kPa
Detection Range	3-100% LEL
T90	<20 Sec.
Lifetime	>5 Years
Volt Supply	12 VDC (Optional 24 VDC)
Outputs	Digital: Modbus (RS-485) Dry Contact: 2 Relays (2A) (Alarm / Fault) Analog: 4-20mA
Certifications	20142016, EN 50270:2015, EN 60335-2 40, EN 60529, EN 60079-0:2018, EN60079-11:2012, EN 378

MPS Methane	GSS FlameIR
Molecular Property Spectrometry (MPS)	NDIR
CH ₄	CH ₄
Wide CH ₄ detection range, vibration resistant, Programmable built-in auto calibration, low drift	
0-100% Rh, -40 to 75°C	0-100% Rh, -40 to 75°C, 80 to 120kPa
3-100% LEL	3-100% LEL
--	<20 Sec.
>10 Years	>10 Years
12 VDC (Optional 24 VDC)	12 VDC (Optional 24 VDC)
Digital: Modbus (RS-485) Dry Contact: 2 Relays (2A) (Alarm / Fault) Analog: 4-20mA	Digital: Modbus (RS-485) Dry Contact: 2 Relays (2A) (Alarm / Fault) Analog: 4-20mA
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FIS5084	MPS-Refrigerant
Semiconductor	Molecular Property Spectrometry (MPS)
(A2L) R32	(A1) R404, R407A (A2L) R32, R454A/B (A3) R290
No calibration required, Silicon poisoning proof, low drift	No calibration required, poison resistant, automatic gas identification, full environmental compensation
0-95% Rh, -25+60°C, 100kPa	0-100% Rh, -40 to 75°C, 80 to 120kPa
0-5000ppm	(A1) 400-2500ppm (A2L, A3) 3-100% LEL
<20 Sec.	<20 Sec.
>10 Years	>10 Years
12 VDC (Optional 24 VDC)	12 VDC (Optional 24 VDC)
Digital: Modbus (RS-485) Dry Contact: 2 Relays (2A) (Alarm / Fault) Analog: 4-20mA	Digital: Modbus (RS-485) Dry Contact: 2 Relays (2A) (Alarm / Fault) Analog: 4-20mA
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ExplorIR-M
NDIR Solid State Infrared LED
CO ₂
Wide CO ₂ detection range, vibration resistant, Programmable built-in auto calibration, low drift
0-95% Rh, -25 +55°C, 100kPa
0-100% Vol.
<20 Sec.
>5 Years
12 VDC (Optional 24 VDC)
Digital: Modbus (RS-485) Dry Contact: 2 Relays (2A) (Alarm / Fault) Analog: 4-20mA
20142016, EN 50270:2015, EN 60335-2 40, EN 60529, EN 60079-0:2018, EN60079-11:2012, EN 378



Explosion Proof



Fast Response



True LEL



Fast Response



Explosion Proof



Long Life



Fast Response



Low Cost



Long Life



Long Life



Robust

