

Voliro T - Accessories

Technical specifications



Flammable Gas Sensor

Sensor Manufacturer	NevadaNano
Sensor Type	Molecular Property Spectrometer™ 3.0 Flammable Gas Sensor
Resolution	0.1 %LEL
Response Time T90	< 20s
Operating Temperature	−40 to 75 °C / −40 to 167 °F
Humidity	0 to 100 %RH
Pressure	80 to 120 kPa
Form Factor	Integrated in propeller guard
Calibration	Factory calibrated

Detected Gases

Gas	Formula	Class	Detection Range %LEL	% Volume of Gas at 100 %LEL (ISO 10156)	MPS Accuracy 0 to 50 %LEL (ISO 10156)	% Volume of gas at 100 %LEL (IEC60079-20-1)	MPS Accuracy 0 to 50 %LEL (IEC60079-20-1)
Butane	C ₄ H ₁₀	4	0-100	1.8 %VOL	±5 %LEL	1.4 %VOL	±9 %LEL
Ethane	C ₂ H ₆	4	0-100	3.0 %VOL	±5 %LEL	2.4 %VOL	±5 %LEL
Hydrogen	H ₂	1	0-100	4.0 %VOL	±5 %LEL	4.0 %VOL	±7 %LEL
Isobutane	HC(CH ₃) ₃	4	0-100	1.8 %VOL	±5 %LEL	1.3 %VOL	±9 %LEL
Isobutylene	C ₄ H ₈	4	0-100	1.8 %VOL	±5 %LEL	1.8 %VOL	±5 %LEL
Isopropanol	C ₃ H ₈ O	4	0-100	2.0 %VOL	±10 %LEL	2.0 %VOL	+20 %LEL
Methane	CH ₄	3	0-100	5.0 %VOL	±3 %LEL	4.4 %VOL	±3 %LEL
MEK	C ₄ H ₈ O	5	0-100	1.4 %VOL	±5 %LEL	1.5 %VOL	+16 %LEL
Pentane	C ₅ H ₁₂	5	0-100	1.5 %VOL	±7 %LEL	1.1 %VOL	±10 %LEL
Propane	C ₃ H ₈	4	0-100	2.1 %VOL	±7 %LEL	1.7 %VOL	±10 %LEL
Propylene	C ₃ H ₆	4	0-100	2.4 %VOL	±5 %LEL	2.0 %VOL	±5 %LEL
Acetone	C ₃ H ₆ O	5	0-100	2.5 %VOL	+20 %LEL	2.5 %VOL	+24 %LEL
Ethylene	C ₂ H ₄	4	0-100	2.7 %VOL	-12 %LEL	2.3 %VOL	-14 %LEL
Heptane	C ₇ H ₁₆	5	0-100	1.1 %VOL	±12 %LEL	0.85 %VOL	±15 %LEL
Octane	C ₈ H ₁₈	6	0-100	1.0 %VOL	±12 %LEL	0.8 %VOL	±15 %LEL
Styrene	C ₈ H ₈	6	0-100	1.1 %VOL	-20 %LEL	1.0 %VOL	-17 %LEL
Toluene	C ₇ H ₈	6	0-100	1.2 %VOL	±12 %LEL	1.0 %VOL	±13 %LEL
Xylene	C ₈ H ₁₀	6	0-100	1.1 %VOL	±12 %LEL	1.0 %VOL	±13 %LEL

Notes:

- Accuracy guaranteed for methane and hydrogen across full environmental range.
- Other gases will typically meet published tolerances across the full environmental range, but guaranteed only near standard conditions: 20°C, 50%RH.
- Accuracy (+) %LEL corresponds to a higher-than-delivered reading and Accuracy (−) %LEL corresponds to a lower-than-delivered reading.

