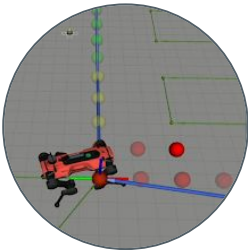# Gas Guard – Presence Detector

## Specification Sheet

Introducing the Gas Guard, a cutting-edge modular gas detection solution designed as a seamless add-on for the ANYmal platform. Engineered to elevate safety standards, the Gas Guard enhances the capabilities of ANYmal by providing real-time insights into gas concentrations within your facility. This innovative product ensures a safer environment by detecting and alerting you to potentially hazardous gases, enabling prompt action to mitigate risks.
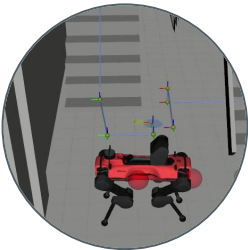
The ANYbotics-developed Gas Guard is a solution addon for gas presence detection for your ANYmal unit. It is a plug & play and self installable solution, that can be retrofitted in existing ANYmal units. In addition, the solution design makes calibration and maintenance hassle free.

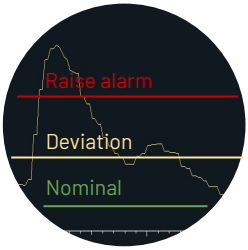## Use cases empowered with Gas Guard - Presence Detector

**GAS MAP**

Generate a comprehensive overview of gas distribution in your facility, covering large sites with a single mobile measuring device.

**STATIONARY MEASUREMENTS**

Setup dedicated stationary gas inspection measurements, as part of the ANYmal mission round, for improved confidence reading in critical areas.

**ALERTS & NOTIFICATIONS**

Acquire real-time feedback and monitor deviations on expected gas levels, providing notifications at predefined thresholds.

## Technical Specifications

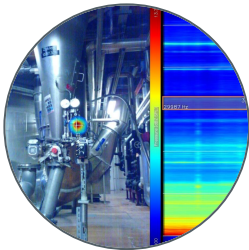| | | |
|---|---|---|
| **Interfaces** | USB 2.0 Type-C interface for ANYmal Series 3 and below<br>USB 2.0 via Fischer interface for ANYmal Series 4 and above | |
| **Gases** | Lower Explosion Limit (LEL) for hydrocarbons (HC)<br>Parts Per Million (ppm) or % for toxic gases ($CO_2$, $SF_6$, $CH_2FCF_3$, CO, $H_2S$, $NH_3$, NO, $Cl_2$, $SO_2$, $O_2$, $NO_2$, $H_2$) | |
| **Additional features** | Easy gas sensor swap with automatic detection and configuration<br>PoE injector for additional peripheral connectivity | |
| **IP Rating** | IP67 for most gas sensors. Otherwise, IP65 | |
| **Operating temperature** | -20 to 50 °C for most gas sensors. Otherwise, -15 to 40 °C | |
| **Dimensions**<br>(L/W/D) | Housing (with sensors) and bracket<br>351 x 140 x 204 mm<br>(13.82 x 5.51 x 8.03 in.) | Gas sensor (per unit)<br>62 x 56 x 157 mm<br>(2.44 x 2.20 x 6.18 in.) |
| **Weight** | Housing (w/o gas sensors) and bracket<br>1300 g (2.87 lbs) | Gas sensor (per unit)<br>649 g (1.43 lbs), or below |

# Gas Guard - Acoustic Imaging

## Specification Sheet

The Sorama L642 is the evolution in acoustic monitoring solutions. It combines the powerful use of acoustic imaging, Class 1 performing detection of sound levels, accurate localization and interpretation. This solution delivers all capabilities of a traditional sound level meter, with many added values to make acoustic measurements insightful, allowing you to identify undesired anomalies in key equipment across your facility.



The ANYbotics-integrated Gas Guard - Acoustic Detector is a solution addon for gas leak spotting for your ANYmal unit. It is a plug & play and self installable solution, that can be retrofitted in existing ANYmal units

## Use cases empowered with Gas Guard - Acoustic Detector



**Gas Leak Detection**

Monitor the evolution of existing leaks in your facility, or spot new deficiencies in key assets as part of regular inspection points during ANYmal's mission



**Partial Discharge**

Uncover events of partial discharge and mitigate their significant impact over time in terms of equipment failure and safety risks

## Technical Specifications

| | | |
|---|---|---|
| **Interfaces** | PoE(+) port 100-240V AC, max 25W | |
| **Camera** | Fixed lens with vertical FoV 65°±3° and horizontal FoV 50°±3°<br>Video resolution 720x1280 or 1920x1080 (still image)<br>Camera resolution 720p at 30fps | |
| **Microphones** | SNR 64 dB for94 dB SPL @ 1kHz<br>Sensitivity -26 dBFS+/-1.5dB @ 1 kHz, 94 dB SPL<br>Acoustic overload point 120 dB SPL @ 1 kHz, <10% THD | |
| **IP Rating** | IP54 | |
| **Dimensions**<br>(L/W/D) | Device<br>170 x 170 x 65 mm<br>(6.7 x 6.7 x 2.6 in.) | Bracket<br>142 x 52 x 16 mm<br>(5.59 x 2.05 x 0.63 in.) |
| **Weight** | 1064 g (2.35 lbs) | 761 g (1.68 lbs) |