

Hawk

PH₃ Fumigation Gas Monitoring Transmitter

- Measures Phosphine (PH₃) gas concentrations in fumigation processes up to 2,000ppm
- User-selectable sample reporting intervals
- Local setup via phone app
- Wireless transmission of gas measurement data via cell network
- Battery powered (rechargeable)
- Long sensor life
- Rugged enclosure for harsh environments
- Portable or fixed mounting
- Reduces the need for site visits
- FumiConnect IoT subscription options available (**fees apply*)



PH₃

APPLICATIONS

Gas Monitoring of:

- Grain Bunkers & Silos
- Shipping Containers
- Vessel Cargo Holds
- Ideal for use on remote, unmanned sites

OVERVIEW

The Hawk PH₃ Fumigation Gas Monitor is a lightweight, battery-powered instrument suitable for both portable and fixed-mounted monitoring of phosphine gas levels during fumigation. The rugged enclosure protects the instrument in harsh environments. Instrument setup and interrogation are achieved via a dedicated phone app.

Measurement data is transmitted via the cellular network at intervals that the user can pre-set for the specific job type and duration. Live data can be transmitted to a cloud-based dashboard. Data sent to a cloud-based dashboard can be viewed/reviewed at any time from any location, enabling both live monitoring and post-job analysis or auditing, reducing the need for daily site visits.

The Hawk is designed to report on all stages of the fumigation process, including at low fumigant levels. The sensor is exposed to gas only during sampling, resulting in a much longer sensor lifetime than in conventional diffusion-sensing methods.

A grain spear and associated accessories are available for the instrument, which can be inserted into grain piles to monitor fumigation gas levels within the bunker.

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Sensor type	Electro Chemical
Target gas	Phosphine
Measuring range	0-2,000ppm
Sampling Method	Sample draw via internal pump
Measuring Frequency	User selectable 1 per hour – 24 hours or days
Sampling Time	User selectable 30 sec to 120 sec + auto zeroing cycle
Communication	Data stream via LTE network
Local setup/reading	Bluetooth to phone app (Android and IOS supported)
Tubing Connections	4mm OD tube quick-connect for fresh air and exhaust tubing
Battery	Rechargeable internal Li-ion battery
Battery life	Up to 30 days at 3 samples/day
Charging Connection	IP68-rated connector with a USB-A cable assembly
Enclosure	ASA Plastic, high UV rating, weatherproof
Dimensions	210mmH x 150mmW x 50mmD
Weight	800 grams
Environmental	-10 to +50 C, 95% RH non-condensing
Warranty	12 Months

Accessories



USB C Charger 25W
Super Fast Charger Dual
Port wall charger



Spiral Hose



Plastic Probe with Filter

HAWK REPORTING OPTIONS

The Hawk PH3 Fumigation Gas Monitor can be configured to suit the level of connectivity and reporting each job requires, from fully standalone operation through to real-time cloud monitoring. Three levels of operation are available:

1. Standalone (No Subscription Required)

Hawk operates independently, with no ongoing subscription cost. It logs and stores gas readings continuously for the full duration of the job. The instrument can be interrogated locally via the phone app at any time during the job to check status and readings. Once the job is complete, the full data set can be downloaded and exported (e.g. to an Excel spreadsheet) for record-keeping and analysis.

Best suited for: operators who don't require remote visibility during the job and prefer to review results when fumigation is complete.

2. Data Subscription (FumiConnectData)*

With a FumiConnectData subscription, Hawk transmits job readings directly to a third-party system of the customer's choice, such as BIERs, GoFumig8, or a company's own server. This allows job data to flow straight into existing reporting or compliance platforms, without manual downloads or file handling.

Best suited for: operators who already use a third-party fumigation management system and want Hawk's readings to feed directly into it.

3. Full IoT Subscription (FumiConnectIoT)*

A FumiConnectIoT subscription unlocks the complete Hawk experience. Readings are transmitted to a provided third-party cloud dashboard, enabling real-time visibility into the job as it progresses from any location. All data is stored in the cloud (for up to 180 days) for post-job analysis, auditing, and reporting, reducing the need for site visits and enabling faster response if levels move outside the target range.

Best suited for: operators who want full remote visibility, live alerts, and long-term data storage for compliance and auditing.

Comparison Table

Feature	Standalone	FumiConnectData*	FumiConnectIoT*
Subscription required	No	Yes	Yes
Local logging & app interrogation	✓	✓	✓
End-of-job data export (e.g. Excel)	✓	—	✓
Transmits to third-party system (BIERS, GoFumig8, company server etc)	—	✓	—
Real-time cloud dashboard	—	—	✓
Live remote monitoring during job	—	—	✓
Post-job cloud storage & analysis	—	—	✓

Note: * FEES APPLY - each instrument requires its own subscription.