

# NH<sub>3</sub> RESPONDER

## AMMONIA LEAK DETECTOR



Specially configured  
GasAlert Micro 5 PID

### Key Features

- Smaller and 50% lighter than competing instruments
- Water-resistant design in an integral concussion-proof enclosure
- Large LCD allows for easy-to-read monitoring
- Integral motorized pump for remote sampling and fast response
- AA battery powered for easy replacement (rechargeables available)
- 95 dB alarm tone, bright LED alarm bars, & internal vibrating alarm
- Auto backlight activates in low light & when in alarm
- Four alarm levels: instantaneous Low Alarm, High Alarm, TWA, and STEL
- Records TWA, STEL, and max gas exposures (displays readings on command)
- Datalogger with programmable sampling intervals
- Full self-test of sensor, battery, circuit integrity, and audible/visual alarms

With full-range detection from 0 ppm to 100% LEL,  
it's the only portable ammonia detector you'll ever need.

The NH<sub>3</sub> Responder utilizes two sensor technologies to cover the ranges of interest in an ammonia response operation. The low-level sensor PID sensor detects ammonia concentration readings within the range of 0-1,000 ppm for the 35 ppm PEL and 300 ppm IDLH decision making points.

At concentrations over 4,000 ppm, the PID sensor will display "OL" and the LEL sensor takes over, giving you 3-100% LEL readings for the explosive-levels decision making range. Most response trainers recommend leaving the area at 10% LEL.

Additionally, the PID sensor has an extremely fast response time and is useful for finding small ammonia leaks. Think of it as an "electronic sulfur stick". Refrigeration technicians will find this a useful tool for locating difficult-to-find leaks by "sniffing" around valve packing, sight glasses, shaft seals, etc.

### Applications

- Compressor Rooms
- Tank Rooms
- Vent Lines
- Air Monitoring
- Sea Vessels
- Food Processing
- Chemical Plants
- Refrigeration Systems
- Emergency Response

### Accessories Included

- Integral Motorized Pump
- Sampling Wand
- Sampling Tube
- AA Alkaline Battery Pack
- Hand Carrying Case
- User Manual



**CALIBRATION  
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GAS DETECTION SPECIALISTS

Equipped with one of the largest LCD's on the market, the **NH3 Responder** is still smaller and lighter than competitors' models. The special low-temp LCD is designed to stay readable at temperatures down to -10 °F, so looking for leaks in freezers no longer requires many short-term sessions or "insulating" the instrument.

The **NH3 Responder** comes equipped with an integral motorized pump. Audible, visual, and vibrator alarms activate in the event of a low, high, TWA, or STEL alarm condition. Other standard features include automatic calibration, datalogger, full function self-test, user selectable confidence beep, stealth mode, backlight options, selectable ppm resolution, STEL / TWA measurement choice, combustible correction factor options, user-settable calibration gas concentrations, and multi-language support.

AA alkaline or hot-swappable battery pack options allow for battery installation in the field.

## Ordering Information

The **NH3 Responder** is delivered ready for use with PID and LEL sensors, integral motorized pump, AA alkaline battery set, spare AA battery set, sampling wand and hose (3 ft), stainless steel alligator belt clip, instructions, and a rugged hard-shell carrying case.

**Order #:** [NH3 Responder](#)  
[M5-RBC](#) (rechargeable battery and charging cradle)  
[BW-M5-PID-RS](#) (replacement PID sensor)  
[BW-M5-ES](#) (replacement Electrode Stack)  
[BW-GA-LEL-RS](#) (replacement LEL sensor)

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by Honeywell



## SPECIFICATIONS

Due to ongoing research and product improvement, specifications are subject to change

### Battery:

8 hours runtime on three AA alkaline cells  
 8 hours on rechargeable lithium polymer battery (run-time dependent on backlight usage)

### Pump:

Integral motorized rotary pump. Tubing length up to 100 ft. / 30 m (50 ft. / 15 m standard) with user options

### Sensors:

Plug-in, PID (VOC) 10.6 eV lamp; catalytic (LEL)

### Ranges:

PID (0-10,000 ppm); LEL (3-100% LEL or 4,000-150,000 ppm)

### Calibration Due Date:

Days remaining until next calibration displayed on start-up

### LCD:

Continuous, alphanumeric gas readout and status display advises

### Tests:

Full function self-test, sensor integrity, circuitry, battery, and audible/visual alarms on activation

### Alarm Indicators:

Clearly advises alarm conditions with audible, visual, and internal vibrator alarms

**Visual alarms:** Two flashing alarm bars visible from all angles. LCD indicates gas present and alarm levels encountered

**Audible alarm:** Typically 95 dB at 1 ft. / 30 cm variable pulsed audible alarm

**Vibrator alarm:** Pulses warning in gas alarm conditions, or for any status alarms

**Status alarms:** Low battery, over range, multiple gas, pump, and failed or missing sensor

### Alarm Levels:

Instantaneous Low Alarm; Instantaneous High Alarm; TWA (time-weighted average), and STEL (short-term exposure limit)

**Alarm setpoints:** Displayed on activation and on demand

### Calibration Schedule:

6-month intervals

### Enclosure:

Rugged, composite material; two-shot molded polymer case with integral anti-shock boot. Highly water resistant and dust proof

**Humidity:** 0 - 95% RH (non-condensing)

**Dimensions:** 5.7 x 2.9 x 1.5 in

**Weight:** 13.1 oz

### Gas concentration:

Simultaneously and continuously displays gas concentration(s) for all sensors (in ppm or % LEL). Peak (max)/STEL/TWA ppm or %: Records exposures and displays on demand

### User field options:

Confidence beep, set STEL period, force calibration on start-up, enable / disable sensor, pass code protection, latching alarms, span level, passed calibration user-lockout option, "SAFE" display function, stealth mode, fast pump, alarm only backlight mode, LCD language option, STEL calculation choice, TWA calculation choice, PID / combustible correction factor options, and user-settable calibration gas level

### Warranty:

1 year (including sensors)