

NH₃ RESPONDER ULTRA

AMMONIA LEAK DETECTOR



BW
Technologies
by Honeywell

Specialty configured Ultra

Key Features

- 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
- Rechargeable lithium polymer battery
- 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
- Includes carrying case, wand and hose

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

The NH₃ Responder Ultra 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 4,500 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. For added safety, the onboard oxygen sensor will alarm in the event of low O₂ levels.

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

Optional Accessories

BW-ID-ULTRA (Intellidock)
BW-ID-ENABL (Intellidock Enabler Kit)

The IntelliDoX automatically tests the gas detector and sensors while transferring data to the docking station. The Enabler Kit has all of the power and tubing hardware needed. These two products are necessary for auto-calibration and transfer of the data from the Ultra. Call for more information.



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Equipped with one of the largest LCD's on the market, the **NH3 Responder Ultra** is still smaller than some competitors' models.

The **NH3 Responder Ultra** 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.

Ordering Information

The **NH3 Responder Ultra** is delivered ready for use with PID, LEL and O2 sensors, integral motorized pump, rechargeable lithium polymer battery and charger, sampling wand and hose (3 ft), stainless steel alligator belt clip, instructions, and a rugged hard-shell carrying case.

Order #: [NH3-RESPONDER-ULTRA](#)

BW-ULTRA-BATT (rechargeable battery and screw)

BW-ULTRA-PID-RS (replacement PID sensor)

BW-ULTRA-ES (replacement Electrode Stack)

BW-ULTRA-LEL-RS (replacement LEL sensor)



SPECIFICATIONS

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

Battery:

14 hours @ -4°F

Pump Draw:

Sample up to 75 ft

Sensors:

PID (VOC) 10.6 eV lamp: (0-1,000 ppm NH3)
(LEL): (3-100% LEL (4,500-150,000 ppm NH3))
Oxygen (electrochemical): (0-25% (vol))
Additional options: CO and H2S

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

Calibration Schedule:

6-month intervals

Operating Temperature:

-4°F to +131°F / -20°C to +50°C

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

Alarm Indicators:

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

Enclosure:

Rugged, composite material; two-shot molded polymer case with integral anti-shock boot. IP66 water resistant and dust proof.

Dimensions: 5.8 x 3.3 x 1.6 in

Weight: 14.5 oz (with clip)

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

Certifications:

UL: Class 1, Div 1, Group A, B, C, D
Class 1, Zone 0, Group IIC

ATEX: II 1G Ex ia IIC T4 Ga

IECEx: Ex ia IIC T4 Ga

CE: European Conformity

Warranty:

Instrument: 3-years
PID sensor: 1 year
LEL sensor: 3 years
O2 sensor: 3 years
Battery: 2 years