

COOL AIR
INCORPORATED

Ammonia Leak Detector

Model LBW-50



Your dependable, low maintenance, low cost, 24-hour watchman

Designed for use in industrial freezers, coolers, production areas, engine rooms, and/or dock areas.

Early warning to your employees.

Quick response to leaks even during off-production hours.

Solid state circuitry. No radioactive elements. All components U.L. listed.

Versatile in its applications.

Automatically start up or shut off selected auxiliary equipment during an emergency.

Saves money. Low maintenance costs (labor, equipment, & material).

NO SENSOR DEPLETION during an ammonia leak, from background ammonia vapors, or during testing &/or calibration.

Meets OSHA requirements.

These essential features in one detector:

- Affordable, dependable, & virtually maintenance free
- Detects concentrations of ammonia as low as 0 PPM to 1000 PPM with the same NH₃ sensor cell. Factory set, non-field adjustable Early Warning (low alarm) setpoint & field-adjustable Alarm (high alarm) setpoint.
- Energized normally open, normally closed dry-contacts for your automation and/or alarm system.
- Extra set of dry-contacts for auxiliary equipment.
- Power supply: 115/230 VAC, 50/60 Hz, or 24 VDC.
- Service mode for avoiding nuisance alarms during cleaning, servicing, testing, &/or calibration.
- NEMA 4X enclosure with viewing window.
- Standard 36-month limited warranty.
- Made in the USA.

Options:

- Remote sensor with box & 50 ft. of cable (std.)
Note: Remote sensor maximum distance is 500 ft.
- Remote sensor for safety relief vent line
- Remote alarm light & horn unit
- ABS washdown/utility tube
- External service switch
- Battery back-up

Ammonia Leak Detector Model LBW-50 Guide Specifications

Specifications

Ammonia detection sensitivity: 0 to 1000 ppm

Display: Progressive LED light tree.

Controls: Service mode switch, Test button, Field-adjustable Alarm potentiometer.

Ammonia sensor: Metal oxide semiconductor. 833 mW integral heater. Alumina ceramic base. 100 mesh SUS 316 double gauge. Flame arrestor.

Relays: Qty. (3) 5A, form C (SPDT), normally-open, normally-closed; Early Warning (low alarm) relay, Alarm (high alarm) & Auxiliary relays (aux. relay operates with alarm relay); Normal mode: energized in normally-open/closed state.

Outputs: Isolated dry-contacts for: Early Warning, Alarm, & Auxiliary relays.

Operating temperature: -50°F to 125°F

Operating humidity: 5% to 95% RH, non-condensing; condensing kits available.

Power requirements: 115/230 VAC, 50/60 Hz, transformer converted to 16 VAC, or 24 VDC

Outside Dimensions: 7 1/2" H x 7 3/4" W x 4 1/4" D

Weight: 4 lbs.

Note: All dimensions and weights are approximate and should not be used for installation planning purposes.

Enclosure: Custom safety yellow, NEMA 4X rated, UL listed, CSA, IEC, IP66, with viewing window.

Options:

- Remote sensor with box & 50 ft. of cable (std.)
Note: Remote sensor maximum distance is 500 ft.
- Remote sensor for safety relief vent line
- Remote alarm light & horn unit
- ABS washdown/utility tube
- External service switch
- Battery back-up

Suggested Specifications Text

Ammonia (NH₃) Vapor Detector System.

Provide ammonia leak detector(s), model LBW-50, as manufactured by Cool Air Incorporated, Ham Lake, Minnesota.

Ammonia leak detector(s) shall be stand-alone, wall-mounted unit(s) and have a solid-state instrument panel and sensor capable of sensing ammonia vapor concentrations of 0 to 1000 parts per million (PPM). Sensor shall not deplete during an ammonia leak, from background ammonia vapors, or during testing &/or calibration.

Detector(s) shall have a factory set, non-field adjustable Early Warning (low alarm) setpoint and a field-adjustable Alarm (high alarm) setpoint .

Detector(s) shall contain no radioactive materials.

Detector(s) shall have: an early warning system, a front-panel progressive LED light tree display, dry-contacts for operating auxiliary equipment, and a service mode for avoiding nuisance alarms during cleaning, servicing, testing, or calibration.

Detector(s) shall be capable of initiating a supervised alarm, resulting in corrective action.

Optional remote sensor, remote sensor for safety relief vent line, remote alarm light & horn unit, ABS washdown/utility tube, external service switch and battery back-up shall be available from the detector manufacturer.

Power supply shall be 115/230 VAC, 50/60 Hz, or 24 VDC

Detector(s) shall be manufactured in the USA.

Warranty

The LBW-50 comes with a standard 36-month limited warranty on workmanship from the date of shipment. An optional 60-month limited warranty is available.

Cool Air Incorporated reserves the right to make changes in the design without notification.



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