

# COOL AIR

(763) 205-0844

INCORPORATED

## Ammonia Leak Detection Systems

1544 134th Avenue NE  
Ham Lake, Minnesota 55304

Cool Air Incorporated's Solid State Sensor Specifications for part numbers:  
NH3-S-RPL

**Cross Sensitivity Data:** Table1 shows the typical response to interference gases this list is not intended to be all inclusive.

| Gas                      | Sensor Reading/ppm |
|--------------------------|--------------------|
| Ammonia 100 ppm          | 100                |
| Butane 1000 ppm          | 60                 |
| Carbon monoxide 100 ppm  | 5                  |
| Carbon dioxide 1000 ppm  | 0                  |
| Chlorine 1 ppm           | 0                  |
| Ethanol 20 ppm           | 40                 |
| Hydrogen 500 ppm         | 30                 |
| Hydrogen sulfide 4 ppm   | 80                 |
| Methane 5000 ppm         | 0                  |
| Nitrogen dioxide 1 ppm   | 0                  |
| Ozone 0.1 ppm            | 0                  |
| Perchloroethylene 50 ppm | 0                  |
| Propane 5000 ppm         | 100                |
| Sulfur dioxide 20ppm     | 100                |
| Toluene 10 ppm           | 5                  |

The solid-state sensor NH3-S-RPL has a shelf life greater than five years as long as they are stored in their original packaging, defined as the small re-sealable bag.

Once installed the sensor should last 3 to five years depending on the installed environment. All our sensors are warranted for three years from date of sale.

- Sensing range 0 to 1000ppm
- Operating temperature -50 degrees F to 125 degrees F
- 15 ~ 95% RH non-condensing
- Linearity: +/- 1% of full-scale
- Repeatability: +/- 1% of full-scale
- Response Time:
  - T50 = less than 20 seconds
  - T90 = less than 50 seconds
- Accuracy +/- 1% of value, but dependent on calibration bottle accuracy (typ. +/- 2%) and time since last calibration
- Excellent durability to NH3 exposure
- Long life
- Three-year warranty