

BASIC AMMONIA DETECTOR – NH3000

FORENSICS DETECTORS™

**FORENSICS
DETECTORS**



Made in JAPAN
Electrochemical
NH3 Sensor

MAX, HOLD
& Backlight
Buttons

Protective
Yellow Rubber
Sleeve, NO-Slip
Grip



Large LCD Display
with BACKLIGHT
& low voltage warning

ON/OFF Button

Sound BUZZER

9v Battery

**** WARNING ****

- KEEP DETECTOR **AWAY** FROM ELECTROMAGNETIC & MAGNETIC INTERFERENCES.
- **DO NOT** EXPOSE PRODUCT TO HARSH ENVIRONMENTS or CHEMICALS.
- STORE IN AN ENVIRONMENT **WITHIN SPECIFICATIONS**.
- ALARMING INDICATES PRESENCE OF AMMONIA THAT MAY KILL YOU.
- IF UNIT ALARMS **TAKE PRECAUTIONS**. IF UNWELL, SEEK FRESH AIR and/or SEEK MEDICAL ATTENTION.
- **DO NOT** ATTEMPT TO OPEN THE ALARM UNIT.
- **REMOVE BATTERY** IF STORING >10 DAYS.
- CLEAN DETECTOR ONLY WITH DAMP CLOTH.
- **DO NOT** DROP OR MECHANICALLY SHOCK THE DETECTOR.

INTRODUCTION

You have purchased the Basic Ammonia NH3 Detector, Meter and Analyzer by FORENSICS. The detector is FACTORY calibrated, just turn ON and GO. This detector is perfect for farm use to help livestock wellness, feed optimization and waste management. This product detects Ammonia gas and provides alarm functionality. Ammonia is a toxic gas that requires continuous detection particularly in occupational spaces for humans and safety for animals, livestock and pets. The Permissible Exposure Limit for ammonia set by OSHA is 50 parts per million (ppm) averaged over an eight hour workday. The NIOSH Recommended Exposure Limit (REL) for ammonia is 25 ppm averaged over an eight-hour workday. NIOSH also says that there should be a Short Term Exposure Limit (STEL) of 35 ppm during any 15-minute period in the day.

OPERATION

The NH3 sensor is located on the back topside of the detector. When NH3 molecules are exposed to the sensor, the sensor electrically detects these molecules and displays the “parts per million (ppm)” ambient NH3 concentration on the detector’s LCD display.

ON/OFF: Press **GREEN ON/OFF** button. When ON the detector immediately detects ambient NH3 gas concentration and displays NH3 ppm concentration.

BACKLIGHT: Press **SUN SYMBOL** to toggle the backlight.

HOLD: Press **HOLD** button to record current displayed NH3 concentration.

MAX: Recalls maximum NH3 value detected (memory), press again to toggle back to instantaneous level.

BATTERY: Battery icon will display when battery is LOW.

AUTO-OFF: Detector automatically shuts down to preserve battery life when no button is pressed over 15 minutes.

ALARMS

- 1st ALARM >35ppm:** Buzzer alarms “beep-beep-beep”.
- 2nd ALARM >200ppm:** Buzzer alarms “beeeeeeeeeeeep”.

BATTERY

Detector arrives with the **9V battery**. When replacing the battery, remove the yellow rubber sleeve and the battery cover can be accessed to replace the 9V battery.

SPECIFICATIONS

Sensor: Electrochemical sensor, Ammonia NH3 gas sensor (Made in Japan)

Range & Resolution: 0-1000ppm with 1ppm resolution
Error: ±10% of reading

Response/Recovery Time: < 30 seconds

Operating/Storage Temperature: 0-50°C

Operating Humidity: 10%-90%RH

Sensor Life: 2 years (from purchase date)

Power Supply: 9V Battery

Detector Size: 160 x 56 x 41 mm

Detector Weight: 118g (without battery)

Product Limited Warranty: 1-year from date of purchase

Support & Sales

WEB: www.forensicsdetectors.com

Email: forensicsdetectors@gmail.com

For more instructions see our [YouTube Channel](#)



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Quality Control and Calibration Inspection Report

Product	BASIC Ammonia Detector	Model:	NH3000		
Gas	NH3	Serial:			
Range	0-1000ppm				
Inspection Item	Technical requirements				Result
1. Repetition	< 2%				Qualified
2. Zero drift	< ±3 ppm				Qualified
3. Span drift	< ±5% F.S.				Qualified
4. Response time	Diffusion < 60s				Qualified
5. Appearance	smooth, complete and no marks				Qualified
6. Labels	labels complete and correct				Qualified
8. Alarm function	normal alarming observed				Qualified
9. Calibration	Gas:	NH3			Qualified
	Concentration:	60ppm			Qualified
10. Calibration Parameters	Temperature:				
	Humidity:				
	Anomalies observed?				
11. Accessories Included?	Y / N				
12. Other					
	Qualified Official Stamp And Signature				