EC-FX-NH3

Honeywell





A new and improved approach to ammonia gas detection

EC-FX-NH3 Sensor & Transmitter

Introducing a better, tougher, longer-lasting sensor for industrial refrigeration

Three harsh environments. One tough sensor.

If you use ammonia as part of your refrigeration process, you face several challenges in protecting your plant from the danger and expense of ammonia leaks:





Cold Storage

From banana rooms to ice cream storage to food processing facilities, your cold storage areas are subject to extremely low temperatures — plus changes in humidity during cleaning and changes in pressure due to opening and closing doors. These fluctuations can cause some ammonia sensors to go into fault or false alarm. But since workers are often present in these areas, it's critical for ammonia sensors to stand up to tough conditions and accurately report gas at low levels.

Refrigerated Processing Areas

Some of the harshest environments in the food industry are spiral freezers and blast freezers, where rapid freezing often means drastic changes in temperature. This temperature shock — along with humidity shock from hot-water washdowns — can further challenge the resilience of your ammonia sensors.



Engine Rooms

Finally, the most likely places for a catastrophic ammonia leak are often your engine rooms, since they typically hold ammonia for use throughout your plant. But in the hot conditions of most engine rooms, the liquid electrolytes in standard ammonia sensor cells can dry out quickly, sometimes reducing the sensor's life span and causing false alarms.

Maintaining sensitivity and accuracy — even with rapid changes in temperature and humidity



Breakthrough technology, only from Honeywell Analytics.

In response to these challenging conditions, Honeywell Analytics has developed an innovative new ammonia detector — delivering reliability, accuracy and long-lasting performance that you can't get anywhere else.

The EC-FX-NH3, an evolution of our Manning EC-F9-NH3, features an all-new ammonia sensor with a proprietary electrolyte that stands up to harsh environments.

So whether you're monitoring ammonia in blast freezers, cold storage or engine rooms, you can feel confident in the effectiveness of your gas detection system, helping you ensure life safety, prevent food spoilage and manage costs.

Proprietary technology for longer life and lower costs



Double the warranty

We stand behind our products. We are so confident in the performance of our new sensor that it comes with a two-year warranty — *twice the warranty of most competing sensors*.

EC-FX-NH3 with Stainless Steel enclosure and LCD options



The next generation in ammonia sensors

Our proprietary new sensor in the EC-FX-NH3, backed by rigorous testing, was engineered to Honeywell's highest standards of safety, reliability and cost-effectiveness:

Stability you can count on.

Unlike other ammonia sensors, our new sensor maintains sensitivity — even during rapid changes in temperature and humidity. While other sensors may quickly lose sensitivity after exposure to ammonia gas, our EC-FX sensor bounces back from alarm-level gas exposure and resumes accurate detection. So you can rest assured that your ammonia sensors are protecting lives and operations.

Lower cost of ownership.

Fewer sensor replacements means a lower cost of ownership over time. In fact, if you're currently using our EC-F9 or EC-F2 transmitter, you can significantly cut your costs by switching out your current sensor for the new EC-FX sensor. Over a 10-year period, you can save up to \$2,500 per sensor in the engine room and up to \$1,300 per sensor in cold storage and blast freezers.

Longer life span.

Thanks to our proprietary technology, the EC-FX sensor lasts up to 18 months longer than competitors - and we back it up with the longest warranty on the market. See how it compares:

Application	Competing Sensors	EC-FX Sensor
Cold storage and freezers	Replace once or more every two years	Replace once every three to four years
Engine rooms	Replace every six to 18 months	Replace once every two to three years

And if you're using an ammonia gas detector from another manufacturer, you can potentially save even more by switching to the EC-FX-NH3 transmitter with the all-new sensor. Over a 10-year period, you can cut costs by up to \$5,500 per sensor in the engine room and \$2,800 per sensor in cold storage and blast freezers.

Depending on the number of ammonia gas detectors in your operations, that longer sensor life can add up to serious savings.

The gold standard in ammonia detection - with innovation you can trust

The EC-FX-NH3 is the next evolution of the proven Manning Systems technology, which was designed specifically for the extreme conditions of fruit and vegetable processing, bakeries, meat and poultry processing, beverage and bottling plants, and more.

In fact, our Manning EC-F9 and EC-F2 products have been the most-installed ammonia gas detectors in the refrigeration industry. Now, with the all-new EC-FX-NH3 from Honeywell Analytics, we're making that great technology even better.

Robust capabilities with unique design

The EC-FX-NH3 responds quickly to ammonia gas concentrations in low parts per million (PPM). You can count on this detector to stand up to the challenges of industrial refrigeration environments.

- Rugged construction for long-term reliability. Unlike fragile plastic housings that may break in cold temperatures, the heavy-duty steel enclosure of the EC-FX-NH3 was built to withstand cold and wet environments. The EC-FX-NH3 is also available in stainless steel.
- ATMOS[™] Technology for environmental flexibility.

The EC-FX-NH3 automatically adapts to its environment and can operate in -50°F and 100 percent humidity. So whether you're monitoring ammonia in a banana room or a blast freezer, during dry conditions or a hot-water washdown, the detector maintains accurate and reliable performance.

Creating a new standard of reliability in ammonia gas detection

- SensorCheck[™] Technology for peace of mind. The EC-FX-NH3 is equipped with a microprocessor that checks the electrical viability of the sensor every 24 hours. If there's a problem, SensorCheck sends an indication to your controller so you can rest assured that the sensor is operating properly.
- Optional LCD for real-time visibility. With an easy-to-read display, you can clearly see the ammonia concentration at any given time. The optional display also makes it easy to set alarm levels and change settings all from the detector.

Add it up, and our new EC-FX-NH3 gas detector — housing an all-new, proprietary ammonia sensor from Honeywell Analytics — is the new gold standard for reliability, accuracy and long-term performance in ammonia gas detection.

Honeywell Analytics Lines of Business





Commercial

Gas detection from standalone units to fully engineered, multi-point systems, all offering cost-effective regulatory compliance

 Applications: parking structures, chillers, mechanical rooms, office towers, commercial buildings, shopping centers, swimming pools, golf courses, schools and universities, laboratories

Industrial

Renowned Sieger and Manning gas detection systems with advanced electrochemical, infrared and open path sensing technologies

 Applications: oil and gas, cold storage, water/wastewater treatment, chemicals, engine rooms, plastics and fibers, agriculture, printing and light industrial



High Tech/Government

A complete portfolio of gas and chemical detection instrumentation including infrared spectroscopy (MST) with no cross interference, to Chemcassette paperbased solutions (MDA Scientific) offering detection down to parts per billion

 Applications: semiconductor manufacturing and nanotechnology, aerospace propulsion and safety, specialty chemicals industry, research laboratories, emergency response

Portables

Single or multi-gas and other premium detectors with compact, lightweight designs ranging from simple alarm only units to advanced, fully configurable and serviceable instruments

 Applications: underground utility and electricity ducts, boiler rooms, post-fire sites, sewers, industrial plants, industrial hygiene, first responder teams, remote fleets



Technical Services

24/7 global network includes post-sales service and Systems Integration teams

- Emergency call out, service contracts, on/off-site repair, training and commissioning
- » Complete range of spares, consumables and accessories

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