



## Ammonia Detector

## ICA 512A

The ICA 512A Ammonia detector uses a solid electrochemical cell to detect Ammonia leaks in the 0-100ppm range. Unlike many toxic level detectors the ICA512A will not readily respond to hydrocarbons such as Ethylene from ripening fruit, Carbon Monoxide from fork lift trucks and Hydrogen from charging batteries.

An innovative feature of the ICA 512A is a Lithium battery which has a similar life to the measuring cell and a signal is given when replacement of both is needed. This battery maintains sensor bias providing stable operation independent of power and permitting pre-calibration for simple on-site exchange.

The ICA 512A includes an alarm setpoint and an output that can be used to power an external sounder, indicator or relay.

An optional miniature LCD display can be added to display the measured ammonia.

The ICA512A is suited for applications where an ammonia leak is an occasional event. It is not recommended for refrigerator plant rooms where high level leaks occur frequently.

The instrument requires a nominal 24v power supply and provides a 4-20 mA signal thus making it suitable for installing in integrated control systems.



- 0-100 ppm Ammonia
- No hydrocarbon interference
- Solid electrochemical cell
- Stable zero in air
- Optional digital display
- 4 - 20 mA output
- Rugged polycarbonate housing
- Battery bias for stability
- Built in alarm point

**Specifications :** Range 1 -100 ppm, Resolution :1 ppm,  
Temperature range :-30 to+40°C  
Typical cell life 2 years, Battery OK signal 10mA. Alarm output 100mA  
Dimensions : 120 x 120 x 60 mm. Power supply: 10 to 30 v DC 30mA. Output 4-20 mA into 400R (12v supply)  
Cross Sensitivities :CO, H<sub>2</sub>, Ethylene, >3ppm reading for 100ppm. H<sub>2</sub>S, 20ppm reading for 15ppm

**Distributor :**

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