Electrochemical Cell Sensor
Ammonia Detector
EV492A - EV493A

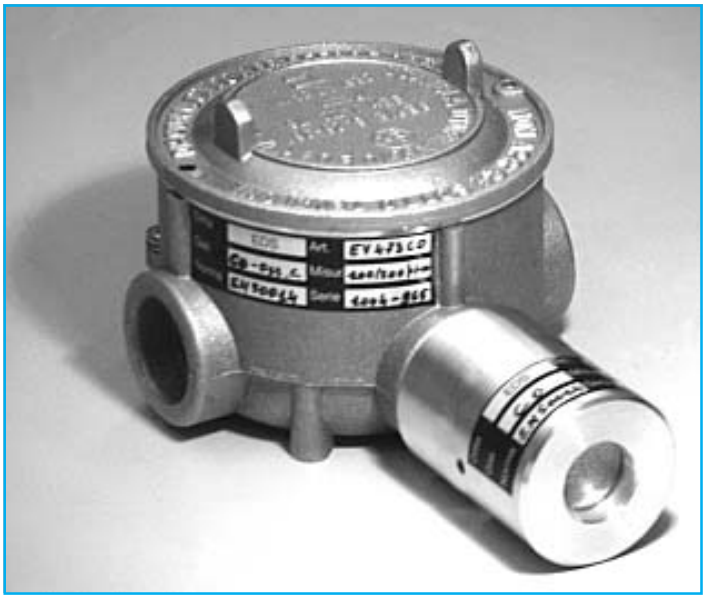
TECHNICAL INFORMATION

APPLICATIONS

- **generic ammonia leak monitoring**
- **industrial pollution monitoring**
- **large refrigerators control**
- **enrironment monitoring**
- **process control**

FEATURES

- **high dimensional stability**
- **precise measures**
- **reapetability of values**
- **quick response**
- **automatic reset**
- **good chemical resistance**
- **high selectivity**



The EV473A - EV474A gas detectors have been designed to be used in industrial environments and in all the places where a leak or an abnormal concentration of ammonia (NH_3) can be dangerous for people and things.

The sensible element used by this detectors is an electrochemical cell sensor.

The main advantages of this type of sensor are the stability, the values repeatability and the great selectivity to the NH_3 gas.

The device is built of a light alloy explosion proof CESI certified box that is corrosion resistant too.

Inside the box there's the sensor mounted with the needed electronics.

The sensor is based on the fuel cells technology and uses a patented diffusion barrier.

The sensor is very reliable and its performance it's excellent. Moreover it is very resistant to corrosion and it's not influenced by temperature or humidity variations.

So the sensor results to be stable for a long time.

The EV492A detector has an analog 0-5V output.

The EV493A gas detector has a 0-5 V analog output and two relay outputs each with its preset threshold.

TECHNICAL DATA

- power supply : 12 - 24Vcc (+/-15%)
- power consumption : 1W max
- measuring range: 0 - 100 ppm of NH_3 (ammonia)
- **analog output 0 - 5V (EV492A)**
- **analog output 0-5 V and 2 relays with 2 alarm threshold preset to 25 and 50 ppm (EV493A)**
- resolution: 0,5 ppm (20°C)
- working temperature : -25 +30 °C
- working humidity : 15 - 90%
- pressure limit : environmental pressure
- repeatability: 10%
- long term shifting : < 10% signal/month
- response time : about 35 sec.
- setup time : > 20 sec
- working life : 2 years
- explosion proof light alloy box
- protection : Ex d II C T6
- execution : IP65
- certification : **CESI EX - 96.108 X/N**
- also conforms to the following norms : EN50014 - EN50018- EN50020 - EN50054 - EN50057 - CEI 64-2
- sensor certified according to the norms : BS5750Pt3 - ISO9002 - EN29002
- sensor's mounth : 3/4" - UNI 6125 - ISO R7 - BS 21

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