MONICON
ADVANCED GAS MONITORING INSTRUMENTS

MC

CGS500-OSV-826 Ammonia Gas Sensor
· **Temperature stabilised**
· **Long life**
· **Fast response time**
· **Rugged stainless steel body**
· **Detects wide variety of gases**
· **Many accessories available**
· **ATEX II 2 G Exd IIC T6 Ta -40°C to +60°C**

The CGS500-OSV-826 ammonia gas sensor has been designed to measure concentrations of ammonia in the range 0-500ppm. The CGS500-OSV-826 is available as a replacement sensor only or fitted in an Exe certified junction box. It is also available in a standalone unit, the S500L-OSV-826.

The sensor contains a heater and a semiconductor element fabricated onto a ceramic substrate. An electric current is passed through the heater to maintain the substrate at a constantant temperature of 200°C which reduces the effects of humidity and temperature changes on the semiconductor element. Ammonia gas will absorb onto the surface of the semiconductor element reducing its electrical resistance logarithimically.

The CGS500-OSV-826 sensor should be connected to a compatible Monicon controller which has electronics and firmware to power the sensor, analyse the resistance change, linearise it and digitally process it to provide a linear signal and provide alarms and a digital readout.

Applications
· **Industrial refrigeration facilities**
· **Ammonia storage**
· **Fertiliser manufacture**
· **Food and beverage industry**
· **Pharmaceutical manufacture**
· **Wastewater treatment facilities**
· **Emissions control**
· **Pulp and paper industry**

The semiconductor sensor and heater element is built into a rugged stainless steel enclosure. The air sample potentially containing ammonia gas diffuses through a sintered stainless steel disk.

The CGS500-OSV-826 is certified ATEX II 2 G Exd IIC T6 Ta -40°C to +60°C in accordance with European Standard EN60079 for use in hazardous areas.

The sensors are manufactured using an advanced, automated process and undergo exhaustive testing to ensure consistency and reliability. This results in some of the lowest failure rates in the industry.

Advanced products, combined with a stringent Quality Assurance System in accordance with the requirements of International Standard ISO 9001 and European Standard EN80079-34 means that Monicon enjoys a successful relationship with customers drawn from industries including oil & gas, semiconductor, pharmaceutical, automotive, power generation, waste water, pulp & paper, food and brewing.