

Airmaster II

Gas detection, an essential contribution to safety

Unfortunately gases can harmfully influence the health of people and animals. Detecting a shortage or excess can save lives. By installing gas detection from Linde Gas Cryoservices, you will reduce those risks and comply with strict legal regulations.



The Airmaster II is a new generation of gas detection equipment boldly displaying the measured values of two channels and having a traffic light way of visual alarms. All settings are software controlled, allowing to process outputs to given functions. Having an anti-bacterial and fungicidal front foil, the Airmaster II can be used in almost all gas detection applications.

Legislation The legislator will hold the employer responsible for creating a safe working area. That does not remain without consequences, in particular when using nitrogen or carbon dioxide. Nitrogen displaces oxygen and not much less than the 20.9% normally in air, starts causing problems. Carbon dioxide is harmless in sodas, but poisonous and intoxicating in larger concentrations.

Human Interface An Airmaster system comprises the controller unit and two sensors, normally for oxygen, carbon dioxide or one of each. The sensors are state of the art: to monitor the oxygen level in air, we make use of a zirconium-dioxide chip, whilst carbon dioxide is measured using a double beam IR spectrometer. The electronics are hardly subject to wear and will serve for many years to come.

Applications Gases often provide remarkable solutions. A growing segment is the packaging of fresh foods. Users of liquid nitrogen, whether for industrial cooling, freezing or storing biomedical materials, often benefit from installing an Airmaster. Should you be in doubt about the necessity or obligation to install gas detection, ask Linde Gas to

help you to inventory your site and to make recommendations tailored to your needs. This will include integration into your building systems and security plan. After all, gas detection never stands alone.

Linde's view on safety

Linde Gas Cryoservices has a simple and transparent view on gas detection. It should forewarn people to be exposed to undesirable concentrations of gases such as nitrogen, oxygen and carbon dioxide. Our fixed systems will interact with on-site vessels or tanks, mechanical ventilation or air conditioning, building control systems and more. As a consequence, gas detection is an integral part of company procedures that prescribe how to act in case of an emergency.

Fixed controllers will be located in a safe area and be equipped with signal towers in prominent view in- and outside the protected area.

Your advantages

These are the most important advantages:

- Electronic sensors for prolonged longevity;
- Clear LCD displays for each channel;
- Front foil with Microban, anti-bacterial protection;
- Software controlled;
- Standard output for signal tower;
- Additional alarm outlets for interfacing with local systems;
- Robust housing complies with IP65.

Linde Gas Cryoservices will be pleased to offer installation, commissioning and preventive maintenance by its qualified engineers.

Technical Data

<u>Components</u>	<u>Airmaster II</u>	<u>O2 sensor</u>	<u>CO2 sensor</u>
<u>Range</u>	<u>4 - 20mA</u>	<u>0 - 25%</u>	<u>0 - 5%</u>
<u>Temperature range</u>	<u>+4°C ... + 40°C</u>	<u>-5°C ... +40°C</u>	<u>-20°C ... +40°C</u>
<u>Power supply</u>	<u>230Vac</u>	<u>(from Airmaster unit)</u>	<u>(From Airmaster unit)</u>
<u>Start-up time</u>	<u>± 20 seconds</u>	<u>± 5minutes</u>	<u>± 3 minutes</u>
<u>Response time</u>	<u>0,1 second</u>	<u>3 seconds</u>	<u>20 seconds</u>
<u>Standard housing</u>	<u>ABS, IP65</u>	<u>Aluminium, red</u>	<u>Aluminium, red</u>
<u>HACCP housing</u>	<u>ABS, IP65</u>	<u>Stainless steel</u>	<u>Stainless steel</u>
<u>Output signal tower</u>	<u>24Vac/1,25A</u>	<u>n.a.</u>	<u>n.a.</u>
<u>Outputs</u>	<u>4 relais + signal tower</u>	<u>4 - 20 mA</u>	<u>4 - 20 mA</u>
<u>Dimensions</u>	<u>240 x 160 x 90 mm</u>	<u>85 x 90 x 65 mm</u>	<u>85 x 90 x 65 mm</u>



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