

Agscent Air: GHG

Livestock greenhouse gas (GHG) monitoring station

MONITORING SOLUTION FOR METHANE, CARBON DIOXIDE AND NITROUS OXIDE EMISSIONS FROM LIVESTOCK



The Agscent GHG Air: GHG is a compact, and easy to install livestock greenhouse gas monitoring station. The modular design allows the unit to support 4 gas sensors (methane, carbon dioxide, nitrogen dioxide and ammonia).

Housed in a weather resistant enclosure, the Agscent Air: GHG is ideal for continuous round the clock monitoring and has data logging capacity at one-minute intervals. It also has built-in log and forward capability to capture 1 week of operation in the event of a network disruption.

Integrating seamlessly with Agscent's web-based portal for remote data access, this secure data portal enables users to access monitoring logs, set customisable alerts, manage monitoring reports and more. Data is accessible on both desktop PC and mobile smart devices. Data can be pushed via an API to a range of farm visualisation or management software.

The Agscent Air: GHG certified air monitoring system is an invaluable tool in observing gasses in an agricultural setting. By applying information collected from multiple locations in a network, the Agscent Air: GHG allows for a complete understanding of the chemical compounds within the environment



TECHNICAL SPECIFICATIONS

GENERAL

- Monitoring of temperature, relative humidity and atmospheric pressure
- Geo-tagging of all data points
- Forced-air active sampling
- Secondary Wi-Fi connectivity
- Sampling rate of 1 sample per second
- Averaging of data ranging from 1 second up to 24 hours
- Can operate and charge batteries using 100 W, 12 V, solar panel
- Self-diagnosing and auto-zero calibrating
- Remove data access through Agscent's dedicated cloud server
- Operating temperature range of -40 to 40°C
- Power input 8-24V (universal AC adapter included for power of 110-240V)

GAS SPECIFICATIONS

TYPE	DESCRIPTION
Methane	Tuneable Diode Laser Spectroscopy (TDLS) methane sensor with concentration range 0.4-40,000 ppm, Resolution 0.01 ppm
Carbon Dioxide	Carbon dioxide (CO ₂) low concentration sensor; Range 1 - 2,000 ppm; Resolution 0.6 ppm
Nitrogen Dioxide	Nitrogen dioxide (NO ₂) low concentration sensor; Range 10 - 1,000 ppb; Resolution 1 ppb
Ammonia	Ammonia (NH ₃) low concentration sensor; Range 0.005 - 10 ppm; Resolution 0.001 ppm

GENERAL SPECIFICATIONS

PART	DESCRIPTION
Modem	The modem allows Agscent Air: GHG to securely send all data to the Agscent cloud server using cellular connectivity
Power Options	The Agscent Air: GHG features an optional solar power generating system

