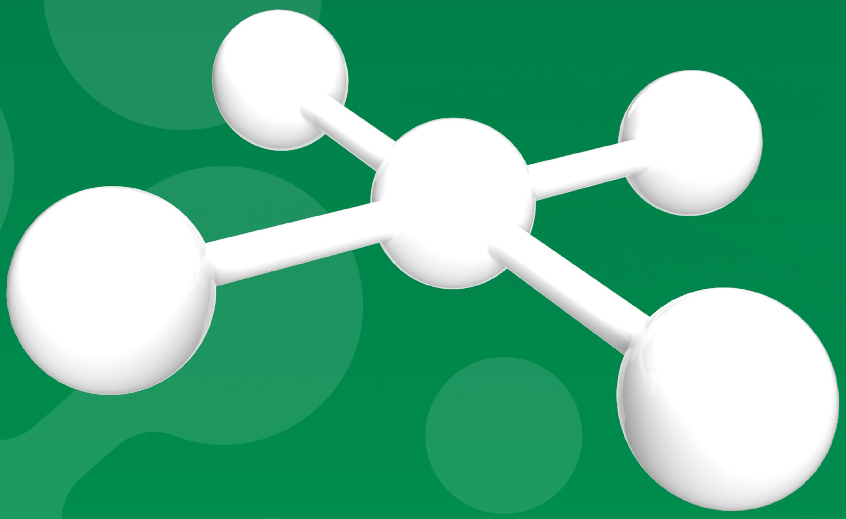
Edinburgh Sensors

CH_4

Gas Detection



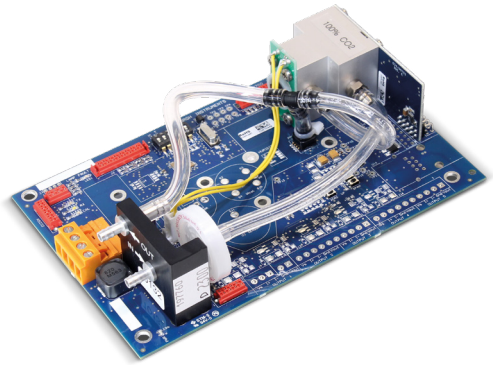
Experts in Gas Detection

edinburghsensors.com

Experts In Single Gas Detection

The Edinburgh Sensors Product Family

Our single gas detection systems and robust integrative gas detectors enable fast, reliable and continuous gas detection. With a global reputation for high performance, our gas detection products are an ideal solution for those applications where accuracy, safety and reliability are paramount. Our solutions for gas sensing are designed and manufactured in the UK.



Gascard NG

An Integrative and Customizable Solution

- Easy integration into gas detection systems
- Onboard temperature and pressure sensors for real time corrections
- 4-20mA output, RS232 interface, optional Ethernet upgrades

Boxed Gascard

A Benchtop Solution

- Housed in protective enclosure for prototyping and design applications
- Optional modular accessories for local display and gas sampling
- Ideal for research projects

Guardian NG

Complete Boxed Solution

- Fixed, fully enclosed gas detector system
- Local display and sampling pump included as standard

Available Accessories

LCD Display (4 digit) kit
Advanced Display Kit
RS232 NG CABLE
Filter capsule 1.0µ PTFE Inline
Gascard NG Pump
Standard Guardian NG Air Pump

Standard CH_4 Measurement Ranges Available

0-1%
0-5%
0-10%
0-30%
0-100%
0-100% Biogas

Calibrated in a background of air as standard.
Tailored for your measurement range and background gas requirement needs upon consultation

Product Selector

	Gascard NG	Boxed Gascard	Guardian NG
Display	●	✘	✔
Pump	●	●	✔
Filter	●	●	✔
Audio/Visual Alarms	●	●	✔
Enclosure	✘	✔	✔
IP 54 Rating	✘	✔	✔
Ethernet	●	✘	●
DC Power option	✔	✔	●

* Not including calibration gas tolerance

✔ Fitted as standard

✘ Not Available

● Available as an option

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Technical Specifications

	Guardian NG	Guardian NG DC	Gascard NG/Boxed Gascard
Accuracy	± 2% of full scale*	± 2% of full scale*	± 2% of range ± 0.015% of range per mbar*
Zero Stability	± 2% of range (over 12 months)	± 2% of range (over 12 months)	± 2% of range (over 12 months)
Response Time	T90 = <30 seconds from sample inlet	T90 = <30 seconds from sample inlet	T90 = 10 seconds or programmable RC
Power Requirements	90 to 260 VAC 50 to 60 Hz	24V DC (18 to 36V DC)	24V DC (7V-30V)
Power Consumption	15 W typical	15 W typical (25 W max)	4 W typical
Warm-up Time	1 min (initial) 30 min (full specification)	1 min (initial) 30 min (full specification)	1 min (initial) 30 min (full specification)
Humidity	Measurements are unaffected by 0-95% RH, non condensing	Measurements are unaffected by 0-95% RH, non condensing	Measurements are unaffected by 0-95% RH, non condensing
Output	4-20 mA/ 0-20 mA analogue output. 11V guaranteed drive capability. Alarm ranges: zero to full scale. Alarm 1 relay, Alarm 2 relay and Fault relay	4-20 mA/ 0-20 mA analogue output. 11V guaranteed drive capability. Alarm ranges: zero to full scale. Alarm 1 relay, Alarm 2 relay and Fault relay. SPCO (single pole change over)	Linear 4-20 mA/ 0-20 mA (bit-switch selectable maximum load dependent on supply voltage)
Operating Temperature	0-40°C	0-40°C	0-45°C
Operating Pressure	800-1150 mbar	800-1150 mbar	800-1150 mbar
Voltage free contacts rating	8A at 250V AC (resistive load) 8A at 24V DC (resistive load)	8A at 250V AC (resistive load) 8A at 24V DC (resistive load)	N/A
Enclosure rating	IP 54	IP 54	IP 54

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