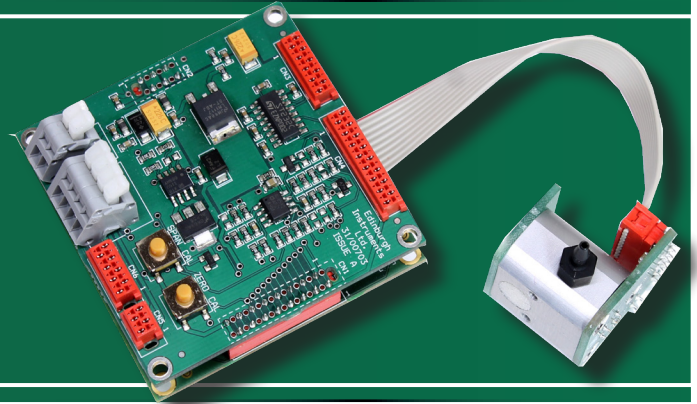


FAST  
ACCURATE  
RELIABLE



## KEY FEATURES

- Flexible compact modular design
- Separate sensor, processing and signal conditioning electronics
- Easy to use digital communication
- Dual wavelength technology, long term stability
- PC based software for graphing and data logging
- Simultaneous analogue current and voltage outputs

## A NEW GENERATION OF GAS SENSORS

The IRgaskiT® range of dual-beam infrared sensors, offer users high performance, true dual-beam detection infrared, temperature compensated measurement of CO<sub>2</sub>. The result is a low drift, high accuracy OEM sensor with single button calibration and optional simultaneous voltage and current outputs.

Each module of the IRgaskiT® has been designed to allow the user maximum flexibility when choosing a solution that meets their application requirements.

Digital communications are easy to utilize and IRgaskiT® PC data logging software is also available. The infrared gas sensor offers these features with the further advantages of a very compact design and low cost.

The IRgaskiT® design is ideal for a wide variety of applications particularly where space and low power consumption are important issues.



## TECHNICAL SPECIFICATIONS

### GAS MEASUREMENT RANGE

| MODEL                       | CO <sub>2</sub>   |
|-----------------------------|---|
| IRgaskiT                    | 0-10%   |
|                             | 0-20%   |
|                             | 0-30%   |
|                             | 0-50%   |
|                             | 0-100%  |
| <b>Accuracy</b>             | ± 5% of range*  |
| <b>Zero Stability</b>       | ± 5% of range (over 12 months)  |
| <b>Repeatability @ Zero</b> | ±1% of range  |
| <b>Repeatability @ Span</b> | ±3% of range  |
| <b>Response Time</b>        | T90 = 300 seconds   |
| <b>Operating Temp</b>       | 0 - 50 °C (Sensors can withstand 90 °C in standby mode)                       |
| <b>Operating Pressure</b>   | 1013mbar (calibration) requires pressure correction at other pressures        |
| <b>Power Requirements</b>   | 5V DC/ 7 - 13VDC depending on configuration                                   |
| <b>Power Consumption</b>    | 0.9W  |
| <b>Output Signal</b>        | 0 - 2V (linear); (Optional simultaneous 4 - 20mA and digital (RS232) outputs) |
| <b>Humidity</b>             | Measurements are unaffected by 0 - 95% relative and humidity, non condensing  |
| <b>Weight</b>               | 125g  |
| <b>Controls</b>             | Zero and Span recalibration buttons (optional)                                |

\*Not including calibration gas tolerance

## PRODUCT APPLICATIONS

- PERSONAL SAFETY
- RESEARCH
- INCUBATORS
- AND MANY MORE...

All specifications are believed to be correct at the time of publication, Edinburgh Sensors does not accept liability for any errors or omissions. Due to our continuous product development all specifications are subject to change without prior notice.

Edinburgh Sensors  
4 Bain Square,  
Kirkton Campus,  
Livingston, EH54 7DQ  
United Kingdom

T: +44 (0)1506 425 300  
F: +44 (0)1506 425 320

E: [sales@edinst.com](mailto:sales@edinst.com)  
W: [www.edinburghsensors.com](http://www.edinburghsensors.com)