IRGASKIT

FOR CO$_2$ and selected Hydrocarbons

EDINBURGH SENSORS
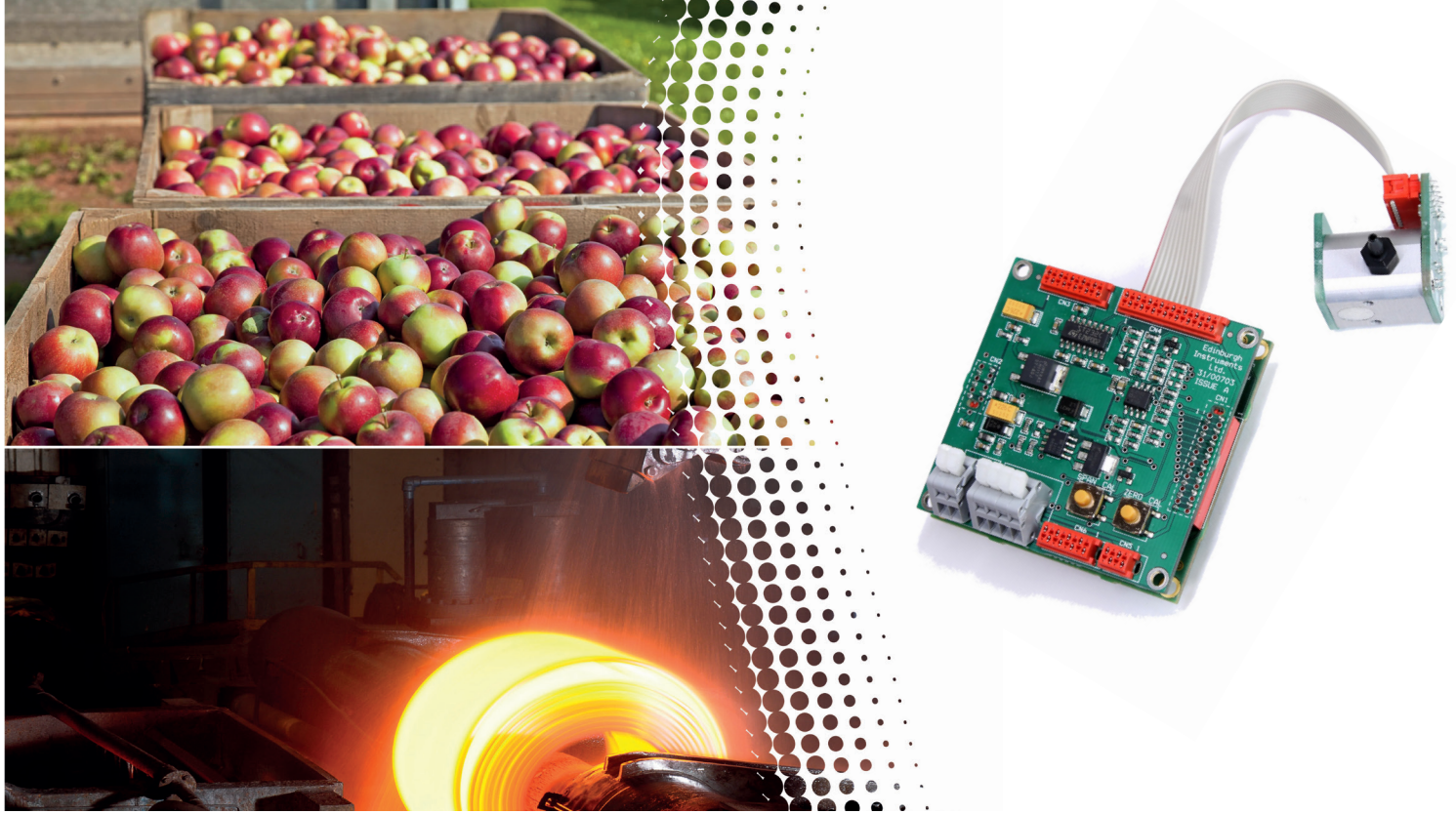
KEY FEATURES

- 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 | FAST, ACCURATE AND RELIABLE

The IRgaskiT® range of dual-beam infrared sensors, offer users high performance, true dual-beam detection infrared, temperature compensated measurement of CO$_2$ and selected hydrocarbons. The result is a low drift, high accuracy OEM sensor with single button calibration and optional simultaneous voltage and current outputs.

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 (<1W) are important issues.

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

TECHNICAL SPECIFICATIONS

GAS MEASUREMENT RANGE

MODEL	CO_2	HC
IRgaskiT	0-2 % 0-5 % 0-10% 0-20% 0-30% 0-50% 0-100%	0 - 100% LEL
Accuracy	± 5% of range*	
Zero stability	± 5% of range (over 12 months)	
Repeatability @ zero	±1% of range	
Repeatability @ span	±3% of range	
Response time	2%, 5%, 100% LEL versions T90 = 30 seconds. 10%, 20%, 30% versions T90 = 300 seconds	
Operating temperature	0 - 50 °C (Sensors can withstand 90 °C in standby mode)	
Operating pressure	1013mbar (calibration) requires pressure connection and other pressures	
Power requirements	5V DC - 7 - 13VDC depending on configuration	
Power consumption	0.9W	
Output Signal	0 - 2V (linear); (Optional simultaneous 4 - 20mA and digital (RS232) outputs)	
Humidity	Measurements are unaffected by 0 - 95% relative and humidity, non condensing	
Weight	125g	
Controls	Zero and Span recalibration buttons (optional)	

* Not including calibration gas tolerance

IRGASKIT PRODUCT APPLICATIONS:

- **PERSONAL SAFETY**
- **RESEARCH**
- **INCUBATORS**
- **And many more**