## Sweek.com



**NOTE:** all sensors are tested at ambient environmental conditions, unless otherwise stated. As applications of use are outside our control, the information provided is given without legal responsibility. Customers should test under their own conditions, to ensure that the sensors are suitable for their own requirements.

Sweek www.isweek.com

Add: 16/F, Bldg. #3, Zhongke Mansion, No.1 Hi-Tech S. Rd, Hi-Tech Park South, Shenzhen, Guangdong, 518067 P.R.China

Tel: + 86-755-83289036 Fax: + 86-755-83289052

## Sweek.com





Typical response from 0 to 5000ppm CO<sub>2</sub>.

The fit is very close to the theoretical curve, predicted by the Beer-Lambert Law.



Temperature compensation corrects for temperature error in the detector.

Best compensation includes both span and zero correction; span correction can be a universal correction, but zero temperature correction will vary with each cell.

The graph shows error at 5,000 ppm CO<sub>2</sub>.

Sweek www.isweek.com

chnical

Add: 16/F, Bldg. #3, Zhongke Mansion, No.1 Hi-Tech S. Rd, Hi-Tech Park South, Shenzhen, Guangdong, 518067 P.R.China Tel: + 86-755-83289036 Fax: + 86-755-83289052 E-mail: sales@isweek.com

## Sweek.com

# **IRC-A1** Performance Data



Custom linearisation is not necessary with the IRC-A1. Using universal linearisation constants, repeatability between cells is very good, allowing easy implementation.

For an IAQ application, a zero and then single calibration at 4,000 ppm CO<sub>2</sub> gives the error shown above: less than 2% of reading and typically less than 0.5% of reading for six different IRC-A1 cells.

### **Figure 6 Resolution**



Excellent stability and resolution at 1000 ppm CO<sub>2</sub> for the IRC-A1 is achieved by better design, not by using more expensive components.

#### NOTE:

For applications where fluctuating ambient light will fall on the white dust filter (top of sensor), order with the optional ambient light filter (IRC-AF).



At the end of the product's life, do not dispose of any electronic sensor, component or instrument in the domestic waste, but contact the instrument manufacturer, Alphasense or its distributor for disposal instructions.

### iSweek www.isweek.com

Add: 16/F, Bldg. #3, Zhongke Mansion, No.1 Hi-Tech S. Rd, Hi-Tech Park South, Shenzhen, Guangdong, 518067 P.R.China