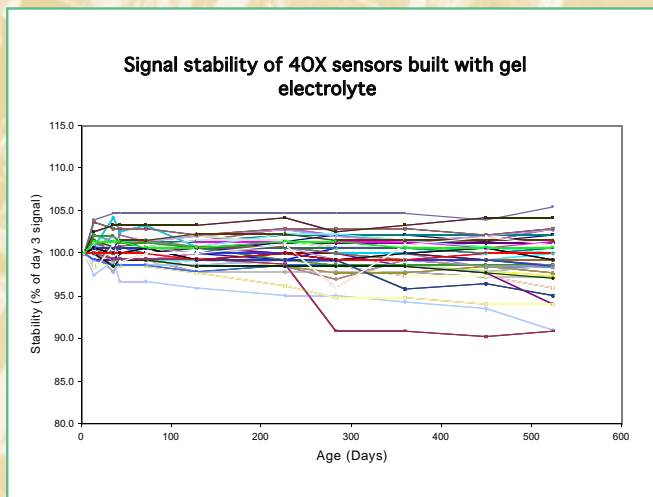


product news

40X stability data

Our latest long-term stability data for the 40X Oxygen CiTiceL® Gold is now available. The graph below shows the signal stability over 500 days.



40X Oxygen CiTiceL® Gold

Benefits of the 40X

- Guaranteed 2-year lifetime
- Guaranteed leak-free operation
- Unrivalled long-term signal stability
- Excellent temperature performance

For a data sheet or further details, please contact Mark Green.

Sensor testing at City Technology

Testing prior to shipping

At City Technology we fully test every single sensor prior to shipping, even with production now exceeding a million sensors a year. Using the latest automatic testing techniques and accurate alpha standard calibration gases, each sensor undergoes rigorous production testing to ensure it conforms to the performance outlined in our literature. All the test results are archived in accordance with ISO9002 regulations.



Part of City's test facilities

and blending equipment, an environmental chamber and automated data acquisition instrumentation. The PA team tests sensors over time to constantly monitor the consistency of sensor production from batch to batch and their long-term performance characteristics as a function of age. This provides invaluable data for

accurate performance specifications and temperature curves, as well as cross-sensitivity data. Much of this data is available in our technical manuals, data sheets and from our website: <http://www.citytech.com>

Research & Development

As a company renowned for innovative gas detection solutions, City has always invested heavily in Research & Development, with in excess of £1.6m spent last year. A full compliment of R&D Scientists works in our fully equipped laboratories on product developments and refinements and numerous research projects. This work all yields extensive data, much of which is subsequently used in making improvements to existing products as well as driving the development of new products.

Product Audit for long-term performance & consistency

In addition to production testing, City has a fully staffed Product Audit (PA) laboratory, equipped with a wide range of gas handling

A02 CiTiceL[®] back in production

We apologise for the recent delays in delivery of our Automotive Oxygen A02 CiTiceL[®]. This was due to a problem with the special membranes used in the construction of the sensor. The problem was quickly identified and has now been resolved.

July '99 issue:

Combustible gas sensors
Sampling & gas handling
techniques
Welcome to new
Design & Development
Director

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Sensors with Electronics – Design overview 3

In many fixed gas detection applications, expensive shut-downs can only be avoided by immediate replacement of an exhausted sensing head. To facilitate this,

City has developed a range of pre-calibrated 4-20mA & mV Output devices that comprise Toxic Gas & Oxygen CiTiceLs[®] in conjunction with SMD printed circuit boards.

4-20mA Transmitters



Available in both Oxygen & Toxic Gas format, the accompanying PCB has an amplifier circuit that converts the output signal from both types of sensors to the industry standard 4-20mA output for two wire, remote monitoring. Available for monitoring O₂, CO, H₂S, SO₂, NO, NO₂, Cl₂, H₂, and HCl they are ideal for high performance, low maintenance fixed gas detection systems.

mV Output CiTiceLs[®]

City Technology has developed a range of Millivolt Output CiTiceLs[®] to complement its established product range. Manufactured as a complete package, they comprise a 3-Series Toxic Gas CiTiceL[®] and tailor-made PCB that converts the micro-amp level signal to 1mV/ppm, or optionally 0.1mV/ppm or 10mV/ppm for certain gases. As these devices require very little power, they are ideal for both fixed and battery-powered applications and for use with data loggers, multimeters, and data acquisition systems.



Benefits of on-board electronics

- Long-term stability means low maintenance
- No calibration gases required as units are supplied pre-calibrated
- No circuit development required for operation
- Minimal shut-down time owing to simple 'plug-in & detect' gas sensing modules

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