The new 4OXV
Our most advanced sensor yet.
City Technology leads the global market in the design and manufacture of innovative and reliable gas sensors for use in personal and fixed life safety systems. With a range of more than 300 products detecting 28 different gases, City Technology is the number one choice for sensing technology.

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4OXV provides an unrivalled set of benefits

The unique design of the 4OXV provides performance improvements in three key areas: false alarm glitch immunity; enhanced output stability and increased reliability. All of which dramatically reduce warranty costs. Other significant benefits to the end user include:

- Reduced instrument downtime & fault replacement
- Enhanced user confidence & life protection
- Increased operating life & measurement accuracy
- Backwards compatibility

VERACITY

Veracity. According to the dictionary it means precision, accuracy and truthfulness. With gas detection, consistent accuracy is exactly what you need. And that’s exactly what our new high performance oxygen sensor delivers. We’ve dedicated six years and millions of dollars in design, manufacture, testing and quality control to make sure the 4OXV gives you the certainty, repeatability and stability you need. False alarm glitches are a thing of the past, plus there’s enhanced output stability and a reliability level as close to 100% as science will allow.

AUTHENTICITY

At the heart of the 4OXV is our unique vented technology. Proven design features used in the 7 Series range of sensors ensure that rapid and extreme changes of temperature and pressure have no effect on output, eliminating any false alarms. Advanced pin sealing techniques also ensure the electrolyte inside the sensor, stays inside the sensor. With life at risk if it fails, an oxygen sensor at the heart of a gas detector must return a totally truthful reading at all times, in all operating environments. The new 4OXV does just that; providing total stability, total reliability and total life safety.

CAPACITY

With over 30 years of experience, City Technology has built a reputation for design innovation and a capacity to address complex gas detection issues. As the world’s largest volume manufacturer of sensors for industrial safety applications, we know a great deal about meeting demanding customer expectations. 4OXV sensors are precision engineered using leading-edge manufacturing techniques and every one is subjected to rigorous environmental testing throughout the production process, so you can be sure of absolute dependability.

TENACITY

To develop an electrochemical sensor that can exhibit unprecedented levels of stability and reliability, particularly in humid or high temperature environments, requires unwavering application and painstaking testing. The 4OXV is the product of such determination and represents a quantum leap in environmental stability. The sensor’s robust design ensures a long and stable working life in the most extreme and demanding applications.
Sensing Technologies

**Glitching eliminated**
Rapid temperature changes experienced when taking an instrument from a temperature controlled internal environment into desert or arctic conditions, can lead to a rapid rise or fall in the volume of air entering the instrument. Without suitable correction, the differential pressure created across the sensor will cause a glitch in the output which can result in a false alarm. By introducing vented technology, the differential pressure is instantaneously corrected, eliminating the signal spikes and potential for spurious alarm conditions.

**Markets and applications**
The 4OXV is designed to reduce instrument downtime and false alarms in a variety of markets:

- Industrial safety
- Oil and gas
- Mining
- Wastewater treatment
- Confined space entry
- Petrochemical

The 4OXV sensor can be used in single or multi-gas portable detectors or for fixed area monitoring.