

## **Embedded Sensors for Respirator Applications**

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Synkera has developed a very low power, low cost sensor chip for trace detection of a wide range of toxic chemicals. The sensor platform is designed for chemiresistive sensing, including the use of both metal oxides and polymer composites and can be tuned to detect a wide variety of chemicals with fast, reversible response, long life and high stability. The platform is based upon a novel nano-ceramic MEMs technology and is well suited for use in ESLI applications. Several different packaging options are available or could be custom-designed to support options for integration in various locations within a respirator.