High resolution gas detection for industrial applications

The combined gas detection of two or more different gases in a complex gas mixture is very important for many industrial applications. Based on the selective absorption by gases in the Ultraviolet (UV) and Infrared (IR) spectral range the Wi.Tec-Sensorik GmbH has developed a novel gas detection system. The brand names for these products are ULTRA.sens® and INFRA.sens®. Both gas detection systems are capable to measure different gas types simultaneously in the low ppm range. Typical combinations are

- SO₂ and NO₂ for exhaust gas monitoring
- SO₂ and CO₂ for stack gas detection (e.g. MARPOL)
- CO and NO for engine control

Wi.Tec offers OEM-Modules with low power consumption, small size and fail-safe data communication (CANopen). Based on the CANopen architecture it is possible to connect a high number of modules to a gas detection network.