

Multiple Gases Detection Using Accurate NDIR Modules

Many applications require the simultaneous analysis of multiple gases like CO₂, NO and SO₂. SILAREX gas sensors have been developed for these applications.

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Applications like emission measurement require the simultaneous analysis of multiple gases like CO₂, NO and SO₂. SILAREX gas sensors have been developed by smartGAS for these applications case. They make parallel concentration measurement of up to three gases with one single NDIR gas sensor.



SILAREX Module for Multiple Gases Detection

The cross-sensitivities of the individual gases are compensated directly inside the SILAREX sensor, providing the user with fully prepared and corrected measuring values via Modbus ASCII / RTU for further processing. Compared to measuring with three individual sensors, the

advantages are obvious. Only one sensor needs to be calibrated and maintained. Varying sample preparation, different accuracies or life cycles of the sensors do not need to be considered.

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SILAREX gas sensors have been developed by smartGAS for applications like emission measurement require the simultaneous analysis of multiple gases. The accuracy and reliability of NDIR technology.”

Volker Huelsekopf

SILAREX has the following features:

Measures up to three gases simultaneously with one setup

Cross-sensitivity compensation

Pressure compensation

Pre-calibrated, ready to use

The [accuracy and reliability of NDIR](#) technology for

complex measurement tasks

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