

## Gas-Converter (NO<sub>2</sub> $\Rightarrow$ NO) BUNOx



Due to rising global industrialization, the monitoring of exhaust gas is increasingly important. The monitoring of nitrogen oxides (NOx) is particularly important due to its role in the formation of ground-level ozone and acid rain.

The BÜNOx gas converter allows easy and cost effective detection of NOx components in the flue gas (NO and  $NO_2$ ).

BÜNOx converts almost 100% of the  $NO_2$  content of a sample gas to NO by means of a replaceable reactor cartridge. The resulting NO gas is measurable by any commercially available IR-analyzer.

The BÜNOx reactor cartridge, designed in cooperation with a Research Institute, enables the conversion of high  $NO_2$  concentrations at a comparatively low temperature. Interferences on other typical components present in the flue gases such as CO,  $CO_2$ , NO, and  $SO_2$ , are generally not observed. Moreover, a lifetime of over 12 months is possible under normal conditions. This leads to reduced maintenance costs. The maintenance effort is further minimized through the special reactor fastener on the front panel allowing rapid replacement of the cartridge without tools.

The temperature of the converter is adjustable at the front panel through an easy-to-handle micro-controller.

Of course status output signals required for process control are accessible to the user.

- High conversion rate at low temperatur
- High NO<sub>2</sub> conversion-capability (up to 300 ppm)
- Long lifetime
- Easy replacement of converter cartridge without tools
- Temperature control by microcontroller
- Adjustable temperature
- Temperature alarm contact
- 4-20 mA temperature output
- Status-LEDs
- Bypass solenoid valve (optional)
- 19" housing

