

GAS 3000 R HNO_x - C CONVERTER



The monitoring of NO_x in exhaust gases is environmentally important because of its role in the formation of ground-level ozone and acid rain.

In combustion processes in which the nitrogen dioxide (NO₂) content amounts to more than 5% of the nitrogen oxide (NO_x) emission, the continuous measure of NO_x consisting of NO and NO₂ is required by the authorities.

The **GAS 3000 HNO_x-C Converter** allows easy and cost effective conversion of the NO₂ amount into NO by means of a replaceable/refillable cartridge filled with catalytic reactive specific for offering high conversion efficiency and long life time.

The resulting NO gas can be measured as NO_x = (NO + NO₂) by our GAS 3000 R FLUE GAS analyser with NDIR micro-flow NO detector. Interferences on other gas species commonly present in flue gases as CO, SO₂, NO, CO₂ are not observed.

The temperature of the converter is electronically controlled at 400°C and displayed on the front panel.

The compact 19"-3U design of the GAS 3000 HNO_x gas converter allows its easy integration in instrumentation cabinet from new or existing gas analysis systems.

General Features

- 19"-3U rack or desk type enclosure, IP20
- Dimensions : 483*300*130mm, weight 6 kg
- Power supply AC220V 50Hz - 420W
- Conversion efficiency : 96% @390°C and 1.2L/min
- Inlet gas pressure : ≤3bar
- Converter temperature range : 390-410°C (factory setting at 400°C)
- Temperature regulation accuracy : ± 1°C
- Low and high temperature alarm contacts
- Sampling gas volume : up to 300 L/h
- Gas flow : nominal 1 to 1.2L/min
- Gas inlet/outlet connections: Ø6mm
- Lifetime catalytic cartridge : +/- 6 months
- EMC Immunity according to EN/IEC 61326-1

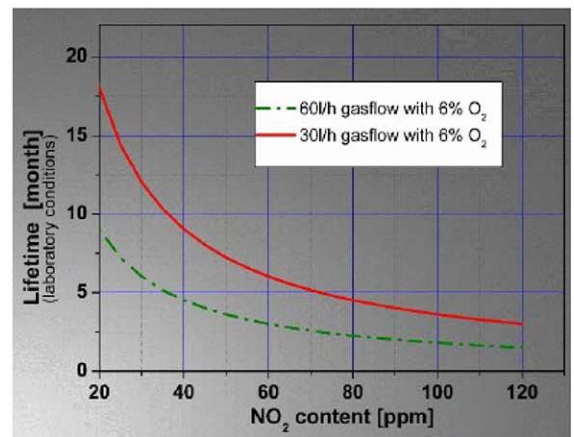
Conversion efficiency test results

1/ Test gas reading when supplied directly into the NO NDIR analyser

NO ₂ test gas	Gas Flow	Reading by NO NDIR analyser	Conversion efficiency
95.7 ppm NO ₂ Balance N ₂	500ml/min	1.2 ppm	
	900ml/min	1.5 ppm	

2/ Test gas reading after passage through the converter

NO ₂ test gas	Conversion temperature	Gas Flow	Reading by NO NDIR analyser	Conversion efficiency
95.7 ppm NO ₂ Balance N ₂	370°C	500ml/min	67,9 ppm	71%
		900ml/min	71.8 ppm	75%
	380°C	500ml/min	74.6 ppm	78%
		900ml/min	81.3 ppm	85%
	390°C	900ml/min	89.1 ppm	93%
		1200ml/min	91.9 ppm	96%



Non contractual pictures and specifications - subject to change without prior notification - Issue -EN15v0

Gas Detection and Analysis
Industrial Processes Gas Monitoring
Landfill & Environmental Gas Monitoring



شرکت آلپرداز ممیتا
 تهران - خیابان آزادی - مابین خیابان شادمهر
 و بزرگراه یادگار امام - شماره ۴۱۷ - واحد ۵
 تلفن: ۰۲۱-۶۶۰۲۸۱۷۲-۵
 فکس: ۰۲۱-۶۶۰۲۰۵۰۹
 E-mail: info@apm-co.ir
 Website: www.apm-co.ir