

TÜV Rheinland Sicherheit und Umweltschutz GmbH - Postanschrift: D-51101 Köln

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Meßstelle für Luftreinhaltung



DAP-P-02.544-04-95-01

Das Institut im Internet



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Köln,	14. April 1999

Suitability test of the multicomponent measurement device NGA 2000, MLT 4 for CO, SO₂, NO, NO₂ and O₂


Dear Dr. Thalmann,

We are appreciate to inform you, that our report, TÜV-Bericht 936/806017/B from 16.02.99 about the NGA 2000, MLT4 for CO, SO₂, NO, NO₂ and O₂ was accepted by the responsible German committee. On page 70 in the report, you can find the formulation which will be published in the German „Gemeinsames Ministerialblatt“ by the Minister of the interior. This publication has a typical delay for three to four months. However, in the mean time you are allowed to sell and use your system as a type approved system.

As you asked for, you will get 5 reports with an independent mail. It is not allowed to copy parts of the report without our special permission.

Best regards

Air Pollution Control Department

i. A. 

Dr. Peter Wilbring

Attachment:

VII Proposal for the announcement

As a result of the positive type approval test we recommend the following continuous measuring system as type approved according the German minimum requirements.

We recommend the publication as following:

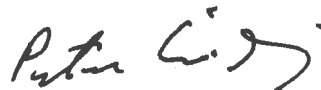
Components CO SO₂ NO NO₂ O₂ NGA 2000 MLT 4

Name	:	NGA 2000 MLT 4
Producer	:	Fisher-Rosemount GmbH & Co
Ability	:	for plants in according with 13., 17. BImSchV and TA Luft
Measurement ranges in the type approval test	:	CO: 0 to 75 mg/m ³ (NDIR-Principle) SO ₂ : 0 to 75 mg/m ³ (NDUV-Principle) NO: 0 to 200 mg/m ³ (NDIR-Principle) NO ₂ : 0 to 50 mg/m ³ (NDUV-Principle) O ₂ : 0 to 10/25 Vol.-% (paramagnet. Principle)
Restriction	:	The tested version of the system has no status signal for the flow control of measured gas. So the system does not fulfil the minimum requirements in this point.
Tips	:	For CO and NO zero and span test gases must be led into the gas line before cooler in a moistened state. The interval for span checking of the components CO, SO ₂ , NO and NO ₂ is extended to 6 months in case of daily automatic zero check and continous barometric pressure adjusting. The interval for zero checking of the component O ₂ is extended to 3 months in case of daily automatic span check and continous barometric adjusting. The measurement system NGA 2000 MLT 3 is equivalent to the tested version. But it is only possible to measure 2 components plus oxygen with that device.

Department of Environmental Protection



Dipl.-Ing. Carsten Röllig



Dr. Peter Wilbring

Köln, den 09.08.1999
936-rö-ha