

PRODUCT INFORMATION

Emission measurement
Process- and analysis measuring
technology



Dr. Födisch Umweltmesstechnik AG

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Our Profile

The Dr. Födisch Umweltmesstechnik AG plans, installs and services measuring systems for operational and authority-required monitoring of air pollutants. Based on the technical competence and the long-time experience of our employees we are able to offer advanced complete solutions for emission monitoring. Our company philosophy is shaped by the fact that we do not only install the measuring systems but also offer the customer an extensive consulting including authority engineering as well as a professional after sales service for the measuring equipment.

The combination of a research oriented to praxis, a realisation proved for industries and a reliable knowledge of valid environmental legislation in our company allow us to offer each customer an optimum and cost-oriented solution for his respective measuring task.

Analysis cabinet



EMI-Container, 13th BImSchV



Your advantage

- Planning, installation and service from one source
- Assistance at the realisation of authority requirements (incl. determination of measuring points)
- Delivery of reliably-working and low-maintenance systems
- Compact construction of multi-component measuring systems
- Limitation to necessary periphery by using complex measuring systems (e.g. measuring flanges)
- Professional service independent from brand

Mobile measuring facility | Requirements on emission measuring technology



The measurement of gaseous pollutants in clean gas is normally made extractively. A representative measuring gas sample is extracted and led to the analyser via a heated measuring gas line. The gas conditioning and the multi-component analyser are mounted in the analysis cabinet.

The dust measurement can be done either in-situ or extractively depending on the prevailing conditions.

In the emission evaluation computer the standardisation of the measuring values is made. The computer does the averaging of values being conform to authorities, the classification of pollutants and mass flows as well as the time counting of diverse facility states. The measuring values are stored and available for authorities anytime.

The highest requirements on official emission measuring facilities in Germany are defined by the 17th BImSchV where the following components are stipulated:

Clean gas	Components to be measured
Gas	HCl, CO, NO, SO ₂ , O ₂ , TOC, Hg, HF <i>in single cases: dioxins, furans</i>

Dust	Dust concentration
Operational parameters	Temperature, flow, pressure, humidity

Legal bases

The concrete requirements on the emission measuring facilities stipulated by authorities are defined by the sub regulations of the Federal Immission Control Act. Various ordinances and administrative regulations contain rules for the separate kinds of plants:

- 13th BImSchV - combustion plants
- 17th BImSchV - plants of single and integrated incineration of wastes
- 27th BImSchV - crematories
- 30th BImSchV - plants for biological treatment of wastes
- TI Air - other plants obliged to monitor

The adjustment of environmental legislations to the present industrial and ecological conditions as well as the implementation of valid EU-norms into German law calls for a steady further development of legal regulations.

Our emission measuring systems meet anytime the latest state of law.

EMI-Container, 17th BImSchV



**PROCESS- & ANALYSIS
MEASURING TECHNOLOGY**

Extract of reference list

TI Air / operational measurements:

- Heraeus Quarzglas Bitterfeld
- Sewage treatment plant Bitterfeld/Wolfen
- Power plant Rothenburg
- Mahler AGS Stuttgart
- Shanxi Textiles China
- Chodovska Plzen, Tschechien
- EKOSIS Ankara, Türkei

Emission measurement according to 13th BImSchV:

- STORA ENSO Eilenburg
- Power plants Dessau, Gera, Wolfen, Potsdam, Strausberg ...
- ECO Stahl Eisenhüttenstadt
- OPEL AG Rüsselsheim
- WACKER Chemie Burghausen
- Power plant Laem Chabang, Thailand
- Power plant Southampton, UK

Emission measurement according to 17th BImSchV:

- Sewage treatment plant Bitterfeld/Wolfen
- Ammunition combustion Chi-shan, Taiwan
- DOW Chemical Buna
- NIER Seoul, Korea
- Biomass power plant Berlin, Recklinghausen, Herbrechtingen ...
- Pulp mill Stendal
- STORA ENSO Eilenburg

Emission measurement according to 27th BImSchV:

- Crematories Altenburg, Berlin-Baumschulenweg /Wedding, Braubach, Coburg, Dessau, Eisleben, Eisenach, Flensburg, Freiberg, Gera, Greifswald, Görlitz,
- Hanau, Linz/Österreich, Magdeburg, Meißen, Osnabrück, Potsdam, Reutlingen, Rostock, Weimar
- Gemeinnütziger Feuerbestattungsverein Halle

Emission measurement according to 30th BImSchV:

- MBA Rennerod

Contact

Dr. Födisch Umweltmesstechnik AG
Zwenkauer Straße 159
D - 04420 Markranstädt

Tel. +49-34205-755-0
Fax. +49-34205-755-40
Mail. sales@foedisch.de
Web. <http://www.foedisch.de>

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