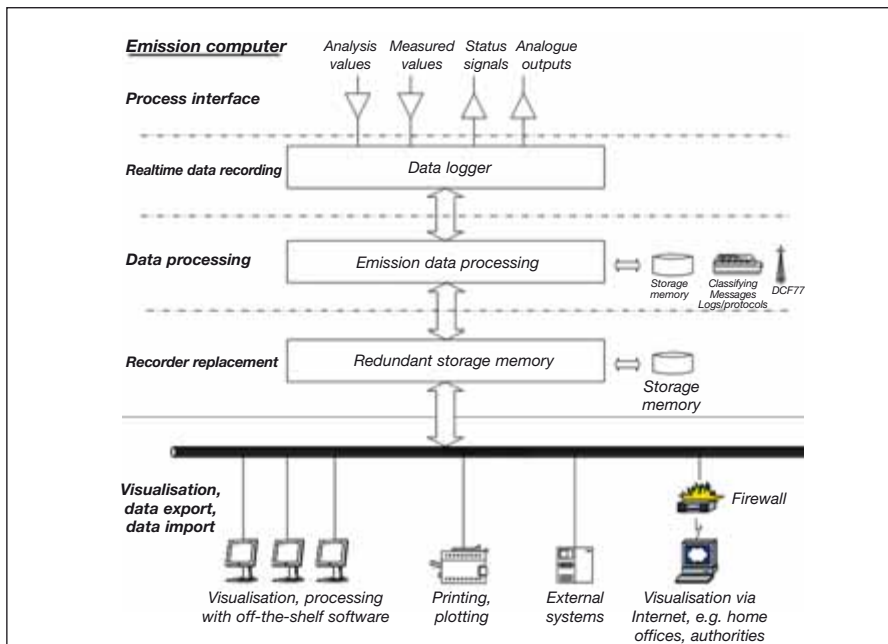


# Emission computer



Modular process data recording system for continuous emission monitoring according to all relevant regulations and directives:

- TA Luft
- 13th, 17th, 27th, and 30th BImSchV
- Standard Harmonised Practice Concerning Emission Computers (German Ministry letter, August 2, 2004)
- DIN EN 14181

In addition to emission data, the system can also record, process and visualise operational data.

If a single data logger is not sufficient for the task at hand, additional data loggers can be added as required.

A separate computer is responsible for **data processing**. The values measured by the data logger are stored every second. This is the basis for all further data processing. The values (in intervals of a second) are computed into integrated values which, in turn, serve as the basis for classifying according to the various legal requirements.

The emission computer meets the following requirements:

- Storage of values recorded in single-second cycles
- Calculation of derived values in single-second cycles
- Computation and storage of integrated values
- Computation and storage of classification data
- Generation of messages
- Generation of digital output and analogue output signals
- Time synchronisation according to DCF77

**Prices on request.**

## Application

Newly designed emission and data recording system with state-of-the-art hardware and software. This system meets all requirements according to DIN EN 14181 regarding emission computers in Germany (TA Luft, 13th, 17th, 27th and 30th BImSchV, Standard Harmonised Practice Concerning Emission Computers, letter of Ministry of August 2, 2004).

## Description

The entire processing logic is based on single second cycles, i.e. all data is recorded and calculated (e.g. standardisation) and visualised in cycles of one second. This is considerably faster than the legal minimum requirement of 5 seconds. There are no restrictions in terms of channel numbers of analogue and digital recording in real life applications of the system. The software is Java-based, so that it is platform-independent. This means that the software can run on different hardware platforms and under different operating systems without requiring modifications. This is of considerable advantage in the long term.

If required, it is no problem to switch to other hardware suppliers or operating systems at a later date. Due to the redundant storage of data, it is not necessary to run an additional recorder for emission measurement, as stipulated by the authorities. In addition, the legal obligation to generate automatic print-outs such as classification logs and messages does not apply.

Operator guidance and user interface conform to current standards. The **data logger** takes over the actual recording of the measured data and the output of analogue and digital signals in realtime.

The data logger records the following value in cycles of a single second:

- Analogue input signals
- Digital input signals
- Analogue output signals
- Digital output signals

Data recording is so fast that it exceeds the legal requirements by far. Choice of measuring accuracy: 12 or 16 bits. For practical use, there are no limitations in terms of measurement channels.