

QUALITY ASSURANCE OF AUTOMATED MEASURING SYSTEMS BY STATIONARY SOURCE EMISSIONS DIN EN 14181

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ABSTRACT

Presentation of European Standard DIN EN 14181:2004 of the quality assurance of automated measuring Systems on stationary source emissions and the operational experience by the implementation in Germany.

The standard describes the quality assurance procedures needed to assure that an automated measuring system installed to measure emissions to air are capable of meeting the uncertainly requirements on measured values.

Three different quality assurance levels are defined to achieve this objective. These quality assurance levels cover the suitability of an automatic measuring system for its measuring tasks, the validation of the system following its installation, and the control of the automatic measuring system during its ongoing operation on an industrial plant. An annual surveillance test is also defined. The surveillance test specifies the evaluation of the correct function, the calibration function and the variability as previously determined.

The DIN EN 14281 manage extensive the quality assurance of automated measuring systems. It concerns the manufacturer, the system designer, the validation service and the operator of the automated measuring system.

Keywords: DIN EN 14181, automated measuring systems, stationary source emissions, quality assurance