

# DIN EN 17389:2020-07 (E)

## Stationary source emissions - Quality assurance and quality control procedures for automated dust arrestment plant monitors

---

<b>Contents</b>		<b>Page</b>
European foreword .....		3
Introduction .....		4
1	Scope .....	5
2	Normative references .....	5
3	Terms and definitions .....	5
4	Symbols and abbreviations .....	10
4.1	Symbols .....	10
4.2	Abbreviations .....	10
5	Principle .....	10
6	Selection and installation of a suitable instrument .....	10
6.1	Selection .....	10
6.2	Installation .....	11
7	Configuration of instruments .....	11
7.1	General .....	11
7.2	Configuration of filter dust monitors .....	11
7.2.1	General .....	11
7.2.2	Service test .....	11
7.2.3	Parallel measurements with the SRM .....	12
7.2.4	Data evaluation and calibration function .....	13
7.2.5	Setting of dust alarm limits .....	14
7.3	Configuration of a filter leakage monitor .....	14
7.3.1	General .....	14
7.3.2	Service test .....	15
7.3.3	Setting of range and dust alarm limits .....	15
8	Ongoing quality assurance during operation .....	15
9	Annual surveillance test .....	16
Annex A (informative) Extension of the calibration range by changing the dust concentration .....		17
A.1	General .....	17
A.2	Changing plant load .....	17
A.3	Changing operation of dust arrestment plant .....	17
A.4	Injection of dust .....	17
Annex B (informative) Explanation of bag filter operation, bag cleaning and filter leakage monitoring .....		19
Figure B.1 -- Dust pulses associated with bag cleaning superimposed on the baseline emission - mass concentration $c$ as a function of time $t$ (5 min intervals) .....		19
Figure B.2 -- Changes in dust emissions associated with filter leak - mass concentration $c$ as a function of time in days $d$ of a calendar month .....		20
Bibliography .....		21