ISO 15259:2023-05 (E)

Air quality - Measurement of stationary source emissions - Requirements for measurement sections and sites and for the measurement objective, plan and report

Contents

Page

Foreword v

Introduction vi

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Symbols and abbreviated terms 5
4.1 Symbols 5
4.2 Abbreviated terms 6

5 Principles 7
5.1 General 7
5.2 Measurement section and measurement site 8
5.3 Measurement objective and measurement plan 9
5.4 Sampling strategy 9
5.5 Measurement report 9

6 Measurement section and measurement site 9
6.1 General 9
6.2 Measurement section 12
6.2.1 Measurement section and measurement plane 12
6.2.2 Measurement ports 14
6.2.3 Working area and working platform 14
6.3 Measurement site 15
6.3.1 Power supply and equipment 15
6.3.2 Safety and environmental conditions 15

7 Measurement objective and measurement plan 16
7.1 Measurement objective 16
7.1.1 Specification of the measurement objective 16
7.1.2 Identification and review of the measurement objective 16
7.2 Measurement plan 17
7.2.1 Specification of measurement plan 17
7.2.2 Plant operating conditions and load characteristics 17
7.2.3 Number of individual measurements 18
7.2.4 Timing and duration of individual measurements 18
7.2.5 Measurement points 19
7.2.6 Measurement methods 19
7.2.7 Measurement section and measurement site 19
7.2.8 Technical supervisor and necessary personnel 19
7.2.9 Planning of the measurement dates 20
7.2.10 Preparation of the measurement 20

8 Sampling strategy 21
8.1 General 21
8.2 Measurement of particulates and other components by grid measurements 22
8.3 Determination of homogeneity 23

8.4 Permanently installed AMS 27

9 Measurement report 28

Annex A (informative) Design and construction of measurement sites 30

Annex B (informative) Measurement planning 39

Annex C (informative) Conversion to reference quantities 58

Annex D (normative) Sampling strategy 61

Annex E (informative)Examplesfordeterminghomogeneityofwastegasprofiles 65

Annex F (informative) Example form of emission measurement report 71

Annex G (informative) Theoretical basis for the determination of the mean concentration in the measurement plane 74

Bibliography 77