DIN EN 14181:2015-02 (Engl isch)

Stationary source emissions - Quality assurance of automated measuring systems

Contents

Page

Foreword 3

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 5

4 Symbols and abbreviations 10

5 Principle 11

6 Calibration and validation of the AMS (QAL2) 14

7 Ongoing quality assurance during operation (QAL3) 24

8 Annual Surveillance Test (AST) 30

9 Documentation 34

Annex A (normative) QAL2 and AST functional test of AMS 35

Annex B (normative) Test of linearity 39

Annex C (informative) Control charts 41

Annex D (normative) Documentation 51

Annex E (informative) Examples of calculation of the calibration function and of the variability test 53

Annex F (informative) Example of calculation of the standard deviation sAMS of the AMS at zero and span level 72

Annex G (informative) Example of using the calibration function and testing the variability and validity of the calibration function in the AST 75

Annex H (informative) Implementation of QAL1 80

Annex I (normative) kv and t0,95; N-1 values 81

Annex J (informative) Significant technical changes 82

Bibliography 84