

ISO 9169:2006-07 (E)

Air quality - Definition and determination of performance characteristics of an automatic measuring system

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Terms and definitions	1
2.1	General terms	1
2.2	Performance characteristics	5
3	Symbols and abbreviated terms	7
4	Terms of reference of the test programme	9
5	Performance characteristics	10
5.1	Basic requirements	10
5.2	Performance characteristics under laboratory conditions	11
5.3	Performance characteristics under field conditions	11
6	Test methods	11
6.1	General requirements	11
6.2	Requirements on the testing laboratory	12
6.3	Response time and minimum averaging time under stable laboratory conditions	12
6.4	Repeatability, lack of fit and limit of detection under stable laboratory conditions	14
6.5	Repeatability of the calibration method specified in the terms of reference under stable laboratory conditions	20
6.6	Drift under stable laboratory conditions	20
6.7	Sensitivity coefficients of interferent influence quantities under stable laboratory conditions	21
6.8	Sensitivity to external influence quantities under stable laboratory conditions	22
6.9	Standard deviation of paired measurements under field conditions	23
6.10	Drift under field conditions	24
6.11	Availability under field conditions	24
7	Test report	24
Annex A (informative) Examples		26
Bibliography		31