

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 |