

# DIN EN 15058:2006-09 (E)

## Stationary source emissions - Determination of the mass concentration of carbon monoxide (CO) - Reference method: Non-dispersive infrared spectrometry

---

<b>Contents</b>		<b>Page</b>
Foreword .....		3
1	Scope .....	4
2	Normative references .....	4
3	Terms and definitions .....	4
4	Principle .....	9
4.1	General .....	9
4.2	Measuring principle .....	9
5	Sampling system .....	10
5.1	General .....	10
5.2	Sampling system .....	10
6	Analyser equipment .....	12
6.1	General .....	12
6.2	Pressure and temperature effects .....	12
6.3	Sampling pump for the analyser .....	12
6.4	Interferences due to infrared absorbing gases .....	12
7	Determination of the characteristics of the method: analyser, sampling and conditioning line .....	13
7.1	General .....	13
7.2	Relevant performance characteristics of the method and performance criteria .....	13
7.3	Establishment of the uncertainty budget .....	14
8	Field operation .....	15
8.1	Sampling location .....	15
8.2	Sampling point .....	15
8.3	Choice of the measuring system .....	16
8.4	Setting of the analyser on site .....	16
9	Ongoing quality control .....	17
9.1	Introduction .....	17
9.2	Frequency of checks .....	17
10	Expression of results .....	18
11	Evaluation of the method in the field .....	19
12	Equivalency with an alternative method .....	19
13	Test report .....	20
Annex A (informative) Schematics of non-dispersive infrared spectrometer .....		21
Annex B (informative) Example of assessment of compliance of non-dispersive infrared method for CO with requirements on emission measurements .....		23

<b>Annex C (informative) Evaluation of the method in the field .....</b>	<b>35</b>
<b>Annex D (informative) Procedure of correction of data from drift effect .....</b>	<b>39</b>
<b>Annex E (informative) Relationship with EU Directives .....</b>	<b>40</b>
<b>Bibliography .....</b>	<b>41</b>