

ANNEX V

Criteria for determining minimum numbers of sampling points for fixed measurement of concentrations of sulphur dioxide, nitrogen dioxide and oxides of nitrogen, particulate matter (PM₁₀, PM_{2,5}), lead, benzene and carbon monoxide in ambient air

A.

Minimum number of sampling points for fixed measurement to assess compliance with limit values for the protection of human health and alert thresholds in zones and agglomerations where fixed measurement is the sole source of information

1. Diffuse sources

Population of agglomeration or zone(thousands)	If maximum concentrations exceed the upper assessment threshold ^a		If maximum concentrations are between the upper and lower assessment thresholds	
	Pollutants except PM	PM ^b (sum of PM ₁₀ and PM _{2,5})	Pollutants except PM	PM ^b (sum of PM ₁₀ and PM _{2,5})
0-249	1	2	1	1
250-499	2	3	1	2
500-749	2	3	1	2
750-999	3	4	1	2
1 000-1 499	4	6	2	3
1 500-1 999	5	7	2	3
2 000-2 749	6	8	3	4
2 750-3 749	7	10	3	4
3 750-4 749	8	11	3	6
4 750-5 999	9	13	4	6
≥ 6 000	10	15	4	7

a For nitrogen dioxide, particulate matter, benzene and carbon monoxide: to include at least one urban background monitoring station and one traffic-orientated station provided this does not increase the number of sampling points. For these pollutants, the total number of urban-background stations and the total number of traffic oriented stations in a Member State required under Section A(1) shall not differ by more than a factor of 2. Sampling points with exceedances of the limit value for PM₁₀ within the last three years shall be maintained, unless a relocation is necessary owing to special circumstances, in particular spatial development.

b Where PM_{2,5} and PM₁₀ are measured in accordance with Article 8 at the same monitoring station, these shall count as two separate sampling points. The total number of PM_{2,5} and PM₁₀ sampling points in a Member State required under Section A(1) shall not differ by more than a factor of 2, and the number of PM_{2,5} sampling points in the urban background of agglomerations and urban areas shall meet the requirements under Section B of Annex V.

2. Point sources

For the assessment of pollution in the vicinity of point sources, the number of sampling points for fixed measurement shall be calculated taking into account emission densities, the likely distribution patterns of ambient-air pollution and the potential exposure of the population.