

ISO/TR 22930-2:2020-05 (E)

Evaluating the performance of continuous air monitors - Part 2: Air monitors based on flow-through sampling techniques without accumulation

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Symbols	4
5	Measuring principle	6
6	Study of dynamic behaviour	7
7	Evaluation of the characteristic limits	13
7.1	General	13
7.2	Single detector	13
7.2.1	General	13
7.2.2	Definition of the model	14
7.2.3	Standard uncertainty	14
7.2.4	Decision threshold	15
7.2.5	Detection limit	17
7.2.6	Limits of the coverage interval	17
7.3	Double detector	17
7.3.1	General	17
7.3.2	Definition of the model	18
7.3.3	Standard uncertainty	18
7.3.4	Decision threshold	19
7.3.5	Detection limit	20
7.3.6	Limits of the coverage interval	20
8	Alarms setup, minimum detectable concentration and potential missed exposure	20
Annex A (informative) Application example: Single detector with a proportional counter		23
Annex B (informative) Application example: Double detector in current mode		26
Bibliography		32