

ISO 21501-3:2019-11 (E)

Determination of particle size distribution - Single particle light interaction methods - Part 3: Light extinction liquid-borne particle counter

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	3
5	Basic configuration	3
6	Requirements	3
6.1	Size setting error	3
6.2	Counting efficiency	4
6.3	Size resolution	4
6.4	Maximum particle number concentration	4
6.5	Sampling flow rate error	4
6.6	Sampling time error	4
6.7	Sampling volume error	4
6.8	Calibration interval	4
6.9	Reporting of test and calibration results	4
7	Test and calibration procedures	5
7.1	Size setting	5
7.1.1	Evaluation of size setting error	5
7.1.2	Procedure of size setting	5
7.2	Evaluation of counting efficiency	8
7.3	Evaluation of size resolution	9
7.4	Estimation of coincidence loss at the maximum particle number concentration	10
7.5	Evaluation of sampling flow rate error	11
7.6	Evaluation of sampling time error	11
7.7	Evaluation of sampling volume error	11
Annex A (informative)	Size resolution	12
Annex B (informative)	Procedure for evaluating the uncertainties of the results of the performance tests	13
Bibliography		18