

ISO/TS 27893:2009-02 (E)

Vacuum technology - Vacuum gauges - Evaluation of the uncertainties of results of calibrations by direct comparison with a reference gauge

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Symbols and abbreviated terms	3
5	Basic concept and model	3
5.1	Sum model	4
5.2	Quotient model	4
5.3	Combination of the two models	5
6	Calculation of uncertainty in the sum model	5
6.1	Total uncertainty (sum model)	5
6.2	Uncertainty contributions due to reference standard	6
6.3	Uncertainty contributions due to unit under calibration	7
6.4	Uncertainty contributions due to calibration method or calibration conditions	8
6.5	Coverage factor	8
7	Calculation of uncertainty in the quotient model	9
7.1	Total uncertainty (quotient model)	9
7.2	Uncertainty contributions due to reference standard	9
7.3	Uncertainty contributions due to the unit under calibration	10
7.4	Uncertainty contributions due to calibration method or calibration conditions	11
7.5	Coverage factor	12
8	Combination of the sum and quotient model for error of reading	13
9	Reporting uncertainties	13
9.1	Uncertainty budget	13
9.2	Calibration certificate	14
Bibliography		15