

ISO 16063-34:2019-12 (E)

Methods for the calibration of vibration and shock transducers - Part 34: Testing of sensitivity at fixed temperatures

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Uncertainty of measurement	2
5	Ambient conditions	3
6	Apparatus	3
7	Method 1: Determination of complex sensitivity using a laser interferometer	4
7.1	General	4
7.2	Method	5
7.2.1	Test procedure	5
7.2.2	Expression of results	5
8	Method 2: Determination of complex sensitivity using a reference transducer inside a temperature chamber	6
8.1	General	6
8.2	Method	6
8.2.1	Test procedure	6
8.2.2	Expression of results	7
9	Method 3: Determination of complex sensitivity using a reference transducer outside the temperature chamber	7
9.1	General	7
9.2	Method	8
9.2.1	Test procedure	8
9.2.2	Expression of results	9
10	Preferred amplitudes, frequencies and temperatures	9
11	Test report	10
Annex A (informative)	Determination of the achieving time of setpoint temperature for a device under test	12
Annex B (informative)	Evaluating uncertainty caused by temperature tolerance	14
Bibliography		16