

ISO 5109:2023-07 (E)

Evaluation method for the resonance frequency of the multi-copter UA (unmanned aircraft) by measurement of rotor and body frequencies

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Test method	2
4.1	Test setup	2
4.1.1	General	2
4.1.2	Hammering method	2
4.1.3	Excitation table method	4
4.2	Concept of an operation frequency	4
5	Analysis of natural frequency and operation frequency	5
5.1	Natural frequency	5
5.1.1	General	5
5.1.2	Natural frequency measurement	6
5.2	Operation frequency	6
5.2.1	Operation frequency measurement	6
5.2.2	Thrust force measurement	6
6	Evaluation of resonance	7
6.1	General	7
6.2	Operating frequency and natural frequency overlapping	7
Bibliography		9