

ISO 17713-1:2007-05 (E)

Meteorology - Wind measurements - Part 1: Wind tunnel test methods for rotating anemometer performance

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Symbols and abbreviated terms	2
5	Summary of test method	3
6	Documentation	6
7	Apparatus	6
7.1	Measuring system	6
7.2	Recording techniques	7
8	Test procedures	7
8.1	Starting threshold (U_0)	7
8.2	Transfer function ($\dot{U} = a + bR + \dots$)	8
8.3	Distance constant (LU)	8
8.4	Off-axis response ratio (QU) -- Cup anemometers	9
8.5	Off-axis response ratio (QU) -- Vane-mounted propeller anemometers	9
8.6	Off-axis response ratio (QU) -- Fixed-axis propeller anemometers	9
8.7	Acceptance testing	10
9	Quality of the test method	10
9.1	General	10
9.2	Wind tunnel	10
9.3	Repeatability	10
9.4	Uncertainty	11
Annex A (normative)	Wind tunnel standard test conditions	12
Annex B (informative)	Examples of formats for recording run data	14
Bibliography		17