

# ISO 17713-1:2007-05 (E)

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

---

<b>Contents</b>		<b>Page</b>
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