ISO 19289:2015-03 (E)

Air quality - Meteorology - Siting classifications for surface observing stations on land

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Air temperature and humidity 1
2.1 General 1
2.2 Class 1 2
2.3 Class 2 3
2.4 Class 3 (additional estimated uncertainty added by siting up to 1 °C) 3
2.5 Class 4 (additional estimated uncertainty added by siting up to 2 °C) 4
2.6 Class 5 (additional estimated uncertainty added by siting up to 5 °C) 4

3 Precipitation 5
3.1 General 5
3.2 Class 1 5
3.3 Class 2 (additional estimated uncertainty added by siting up to 5 %) 6
3.4 Class 3 (additional estimated uncertainty added by siting up to 15 %) 6
3.5 Class 4 (additional estimated uncertainty added by siting up to 25 %) 6
3.6 Class 5 (additional estimated uncertainty added by siting up to 100 %) 7

4 Surface wind 7
4.1 General 7
4.2 Roughness 7
4.3 Environment classification 8
4.4 Class 1 8
4.5 Class 2 (additional estimated uncertainty added by siting up to 30 %, possibility to apply correction) 9
4.6 Class 3 (additional estimated uncertainty added by siting up to 50 %, correction cannot be applied) 9
4.7 Class 4 (additional estimated uncertainty added by siting greater than 50 %) 10
4.8 Class 5 (additional estimated uncertainty cannot be defined) 10

5 Global and diffuse radiation 10
5.1 General 10
5.2 Class 1 10
5.3 Class 2 11
5.4 Class 3 11
5.5 Class 4 11
5.6 Class 5 12

6 Direct radiation and sunshine duration 12
6.1 General 12
6.2 Class 1 12
6.3 Class 2 12
6.4 Class 3 13
6.5 Class 4 13
6.6 Class 5 13

Bibliography 14