

ISO 8000-210:2024-12 (E)

Data quality - Part 210: Sensor data: Data quality characteristics

Contents

Page

Foreword..... iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 **Quality characteristics of sensor data** 1

 4.1 General 1

 4.2 Accuracy 3

 4.3 Completeness 3

 4.4 Consistency 3

 4.5 Precision 3

 4.6 Timeliness 4

5 **Types of anomaly in sensor data** 4

 5.1 General 4

 5.2 Data anomalies for individual sensors 5

 5.2.1 General 5

 5.2.2 Offset 5

 5.2.3 Drift 6

 5.2.4 Trim 7

 5.2.5 Spike 8

 5.2.6 Noise 9

 5.2.7 Data loss 10

 5.2.8 Lack of amount 11

 5.2.9 Shift 12

 5.2.10 Drop or rise 13

 5.2.11 Stuck 14

 5.2.12 Bound oscillation 15

 5.2.13 Inconsistent frequency 16

 5.2.14 Different resolution 17

 5.2.15 Incorrect timestamp 18

 5.2.16 Latency 19

 5.3 Data anomalies for collections of multiple sensors 20

 5.3.1 General 20

 5.3.2 Dissimilarity 20

 5.3.3 Rule violation 21

 5.3.4 Inconsistent timestamp 22

6 **Relationship between quality characteristics and data anomalies** 23

7 **Application of quality characteristics of sensor data** 24

Annex A (informative) Document identification 28

Annex B (informative) Comparison with other documents 29

Bibliography 32