DIN EN ISO 14978:2006-11 (E)

Geometrical product specifikations (GPS) - General concepts and requirements for GPS measuring equipment (ISO 14978:2006)

Contents

Page

Foreword 3

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 6

4 Abbreviations 16

5 Design characteristics 17
5.1 General 17
5.2 Indicating measuring equipment 18
5.3 Material measures 18

6 Metrological characteristics 19
6.1 General 19
6.2 Identification, definition and choice of metrological characteristics 20
6.3 Indicating measuring equipment -- identification of general metrological characteristics 21
6.4 Material measures -- Identification of general metrological characteristics 23

7 Types of presentation and types of specifications for characteristics 25
7.1 General 25
7.2 Presentation of characteristic curves -- Fixed and floating zero 25
7.3 Presentation of a characteristic -- Statistical 28
7.4 Specifications for single-value metrological characteristics 29
7.5 Specification for metrological characteristics defined in a range 29
7.6 Specification for metrological characteristics defined in a two- or three-dimensional range 33

8 Calibration of metrological characteristics 33
8.1 Manufacturer and supplier of measuring instruments 33
8.2 User of measuring instruments 33
8.3 Measurement uncertainty 33

9 Marking 34

Annex A (normative) General minimum requirements and guidance for clauses in GPS standards for specific measuring equipment 35

Annex B (informative) Data sheet for measuring equipment requirements 37

Annex C (normative) Relation to the GPS matrix model 39

Bibliography 41