DIN EN ISO 28927-10:2011-07 (E)

Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 10 : Percussive drills, hammers and breakers (ISO 28927-10:2011)

Contents

Page

Foreword 3

Annex ZA (informative) Relationship between this International Standard and the Essential Requirements of EU Directive 2006/42/EC 30

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms, definitions and symbols 6
3.1 Terms and definitions 6
3.2 Symbols 7

4 Basic standards and vibration test codes 7

5 Description of the family of machines 7

6 Characterization of vibration 11
6.1 Direction of measurement 11
6.2 Location of measurements 11
6.3 Magnitude of vibration 15
6.4 Combination of vibration directions 16

7 Instrumentation requirements 16
7.1 General 16
7.2 Mounting of transducers 16
7.3 Frequency weighting filter 16
7.4 Integration time 16
7.5 Auxiliary equipment 17
7.6 Calibration 17

8 Testing and operating conditions of the machinery 17
8.1 General 17
8.2 Operating conditions 17
8.3 Other quantities to be specified 18
8.4 Attached equipment, workpiece and task 18
8.5 Operator 23

9 Measurement procedure and validity 23
9.1 Reported vibration values 23
9.2 Declaration and verification of the vibration emission value 23

10 Measurement report 24

Annex A (informative) Model test report for percussive drills, hammers and breakers 25

Annex B (normative) Determination of uncertainty 27

Annex C (normative) Design of steel ball absorber 29

Bibliography 31