

DIN EN 415-9:2010-02 (E)

Safety of packaging machines - Part 9: Noise measurement methods for packaging machines, packaging lines and associated equipment, grade of accuracy 2 and 3

Contents		Page
Foreword		3
1	Scope	4
2	Normative references	4
3	Terms and definitions	5
4	Description of machine under test	6
5	Determination of the emission sound pressure level at work station	6
5.1	Sound pressure level measurement at work station	6
5.2	Background noise correction K1	6
5.3	Local environmental correction K3	6
6	Determination of the sound power level	6
6.1	General method	6
6.2	Alternative method for very large machines	7
7	Assembly and installation conditions	7
8	Operating conditions	7
9	Measurement uncertainty	8
10	Information to be recorded	8
11	Information to be reported	8
12	Information and verification of noise emission values	10
Annex A (normative)	Selection of the appropriate standard for the measurement of the sound pressure level at the work station	11
Annex B (normative)	Evaluation of local environmental correction K3	14
B.1	Background noise correction K1	14
B.2	Local environmental correction K3 (EN ISO 11202)	14
B.3	Local correction factor K3 (EN ISO 11204)	16
Annex C (normative)	Selection of appropriate standard for sound power level measurement	17
Annex D (informative)	Information on the machine under test and environmental conditions	20
Annex E (informative)	NOISE MEASUREMENT REPORT	24
Annex ZA (informative)	Relationship between this European Standard and the Essential Requirements of EU Directive 98/37/EC	27
Annex ZB (informative)	Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC	28
Bibliography		29