

DIN EN ISO 3747:2011-03 (E)

Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering/survey methods for use in situ in a reverberant environment (ISO 3747:2010)

Contents

	Page
Foreword	3
Introduction	4
1 Scope	5
2 Normative references	6
3 Terms and definitions	6
4 Test environment	10
5 Instrumentation and measurement equipment	10
6 Location, installation and operation of noise source under test	11
7 Measurement procedure	12
8 Calculation of sound power levels and sound energy levels	15
9 Measurement uncertainty	19
10 Information to be recorded	22
11 Test report	24
Annex A (normative) Evaluation of the excess of sound pressure level at a given distance	25
Annex B (informative) Recommendations for the location of the reference sound source and the microphones, if only one position is used for the reference sound source	26
Annex C (normative) Sound power level and sound energy level under reference meteorological conditions	31
Annex D (normative) Calculation of A-weighted sound power levels and A-weighted sound energy levels from octave-band levels	33
Annex E (informative) Guidance on the development of information on measurement uncertainty ...	35
Bibliography	46
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC	48