

ISO 3747:2010-12 (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

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	2
3 Terms and definitions	2
4 Test environment	6
5 Instrumentation and measurement equipment	6
6 Location, installation and operation of noise source under test	7
7 Measurement procedure	8
8 Calculation of sound power levels and sound energy levels	11
9 Measurement uncertainty	15
10 Information to be recorded	18
11 Test report	20
Annex A (normative) Evaluation of the excess of sound pressure level at a given distance	21
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	22
Annex C (normative) Sound power level and sound energy level under reference meteorological conditions	27
Annex D (normative) Calculation of A-weighted sound power levels and A-weighted sound energy levels from octave-band levels	29
Annex E (informative) Guidance on the development of information on measurement uncertainty ...	31
Bibliography	42