

DIN ISO 5129:2014-11 (E)

Acoustics - Measurement of sound pressure levels in the interior of aircraft during flight (ISO 5129:2001 + Amd.1:2013)

Contents		Page
National foreword		3
National Annex NA (informative) Bibliography		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Instruments	6
4.1	General	6
4.2	Microphone system	6
4.3	Sound calibrator	7
4.4	Verification of conformance	7
5	Test procedures	7
5.1	Measurement procedures	7
5.1.1	Measurement locations	7
5.1.2	Acoustical sensitivity and background electrical noise	8
5.1.3	Acoustical data acquisition	8
5.2	Test conditions	8
5.2.1	Configuration of the aircraft interior	8
5.2.2	Configuration of aircraft systems	9
5.2.3	Crew sleeping quarters	9
5.3	Aircraft flight conditions	9
5.3.1	General	9
5.3.2	Flight condition data	9
6	Data processing	9
6.1	Averaging time	9
6.2	Sound spectra	10
6.3	Adjustment for frequency response	10
6.4	Background noise correction	10
6.5	Wideband sound pressure levels and frequency-weighted sound pressure levels	10
6.6	Transient sounds	10
6.7	Measurement uncertainties	10
7	Data to be reported	11
7.1	Test report	11
7.2	Reported sound pressure levels	11
Annex A (informative) Measurement uncertainty		12
A.1	General	12
A.2	Application	12
Bibliography		14