

ISO-Compliant Sound Intensity & Sound Power

Sound intensity provides a robust method to determine sound power *in real environments*, even where background noise is present. Norsonic Asia delivers end-to-end systems that let engineers and laboratories **measure, calculate, and report** sound power and transmission loss with confidence.

Standards Compliance

- **ISO 9614** (Part 1/2/3) — Sound intensity measurement of sound power
- **ISO 3744 / ISO 3745** — Sound power using sound pressure (engineering / anechoic)
- **ISO 15186** — Airborne sound insulation using sound intensity
- **IEC 61043** — Instruments for the measurement of sound intensity

Integrated Measurement Platform

The **Nor150 Dual-Channel Sound Level Meter** is the heart of the system — paired with the **Nor1290 intensity probe kit**. The **Nor850** software performs guided workflows, applying the correct standard, handling scan/grid methods, and generating **traceable ISO reports** with contour maps and uncertainty evaluation.

Applications

- Sound power determination of machines, appliances, fans, pumps
- Transmission loss / façade testing (ISO 15186)
- R&D; and factory quality control (on-site and test cell)
- University and lab education (transparent vector visualization)

Measurement Methods:

- **Scan method (ISO 9614-2)**: Sweep the probe for faster results under high background noise.
- **Point grid (ISO 9614-1)**: Fixed grid for repeatability and detailed mapping.
- **ISO 9614-3**: Intensity in special reverberant environments.

Deliverables (via Nor850):

- Automatic selection of ISO standard and uncertainty evaluation
- Sound power level (L_w) tables, 1/3-octave plots, and contour visuals
- Pass/fail summaries and exportable reports (PDF/CSV)

Typical Kit:

- Nor150 dual-channel meter + Nor1290 probe
- Nor279 calibrator + optional sound source
- Nor850 ISO 9614/15186 software module

Sound Intensity & Sound Power — Norsonic Asia

Regional Focus — Saudi Arabia: Trusted by consulting teams in *Riyadh* and *Jeddah* for **ISO 9614 sound power** and **ISO 15186 transmission loss** verification, with **same-timezone support** from Norsonic Asia.

Recommended Products

- Nor150 Dual-Channel Sound Level Meter
- Nor850 Measurement, Calculation & Reporting Software
- Nor1290 Sound Intensity Probe Kit
- Nor279 Sound Intensity Calibrator

Why Norsonic Asia

- Regional expertise and support across Asia, the Middle East, and Eastern Europe
- ISO-driven workflows that reduce re-tests and uncertainty
- Training & supervision for first projects; quick start packages available
- Trusted by laboratories, universities, and industrial R&D; teams

Contact

Norsonic Asia Co., Ltd.
Grace Global Raffles, 137 Market Street, #04-01
Singapore 048943
Email: info@norsonic.asia
WhatsApp / Phone: +66 850 638 045

