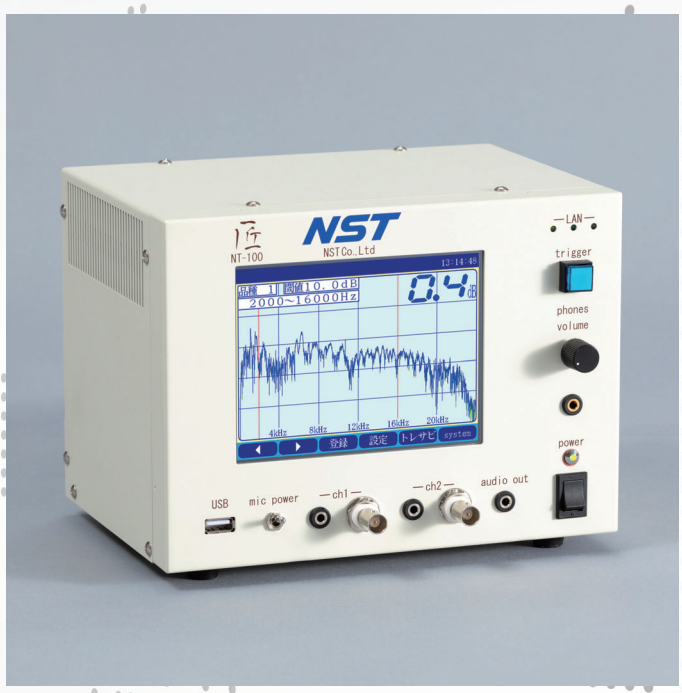
Connector Mating Sound Checker NT-100

Nippon System Technology
NST

Automating Connector mating work will improve productivity.

Pre-register the sound (or vibration) of successfully fitted connectors as a master, compare the measurement data with the master, and make pass/fail judgments based on whether they match. Screen display of judgment results, I/O output of judgment results, and storage of traceability data are available.

*1 Judgment results may be affected by environmental noise.
*2 Testing with a demo unit is possible.



Challenges of manual inspection

- Hearing test has vague criteria.
- Hearing varies from person to person.
- Requires skilled workmanship.

Effects of NT-100 introduction

- Quantification of judgment criteria.
- Stabilization of pass/fail decisions.
- Uniformity of judgment quality.

Application examples

- Detection of mating sounds in harness connector mating operations for automotive components.
- Detection of mating sounds in mechanical component assembly operations.
- Detection of mating sounds in board-to-board mating operations.

Device to judge fully mating or half mating state by measuring a sound generated at cable connector mating.

Specifications

Item	Description
A/D	No. of channels: 2 CH (Microphone input, vibration sensor input, etc.) 24 bit delta-sigma AD converter
D/A	No. of channels: 1 CH (Test signal, warning sound, etc.) 24 bit delta-sigma DA converter
Sampling frequency	48 kHz max.
Input format	Microphone input and vibration sensor input
Display	640 x 480 Color TFT monitor (Touch panel)
Display content	FFT results, judged result values, and parameters
General input and output	I/O: 8 bit/8bit, Measuring start trigger input and judged results output
External I/F	Ethernet 1CH and USB
Memory expansion media	USB memory and large capacity non-volatile memory
Power source	Primary: AC 100V, Internal I/O power source: DC 24V
External dimensions (mm)	W220×D160×H170 *projections not included
Weight	3.0kg

< Development / Manufacturing >

NST NST Co., Ltd.

http://www.nst-co.com

58 Toyooka-cho, Chuo-ku, Hamamatsu-shi, Shizuoka, 433-8103 JAPAN

TEL.+81-53-430-6311 FAX.+81-53-430-6312