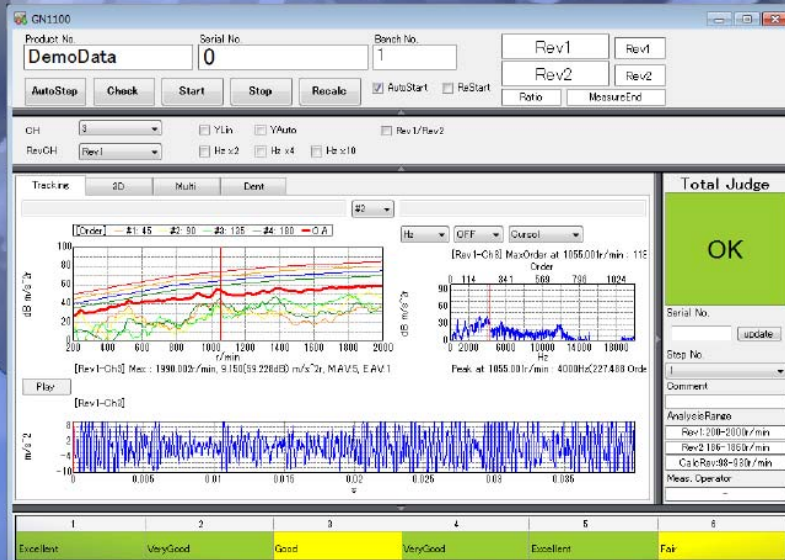


Noise Testing Software

GN-1100 series



Tracking analysis and pass-fail judgment
using 2 revolution inputs and calculated revolution

Overview

GN-1100 was developed for tracking analysis of sound & vibration of a rotating object. It can perform pass-fail judgment and tracking analysis of the each three input signal at the same time (Rev.1, Rev.2, and calculation revolution signal based on Rev.1 and Rev.2).

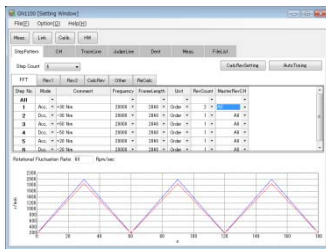
This software is ideal to use in total inspections including vibration analysis of CVT, and turbines operated in parallel.

Feature

- ◆ Tracking analysis and pass-fail judgment of the each three input at the same time (Rev.1, Rev.2, and calculation revolution).
- ◆ Up to 20 steps of measurement pattern setting
- ◆ External control by LAN, DIO, RS-232C
- ◆ Capable of dent judgment during tracking measurement of acceleration/deceleration

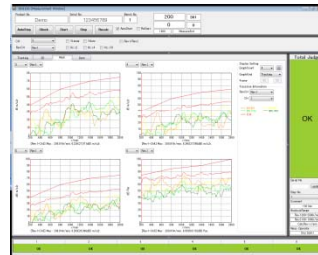
Various functions

Pattern Setting



Up to 20 steps of measurement pattern can be selected by combinations of three items (acceleration/deceleration/constant speed). Upper/lower-limit rotation speed and data import interval can be set to each step of each input (Rev1, Rev 2 and calculation resolution).

Noise Judgment



Judges, displays on the screen, and outputs the signal.

1. Sections of Judge line : up to 32
2. Judge line setting : up to 32
3. Multi judge function

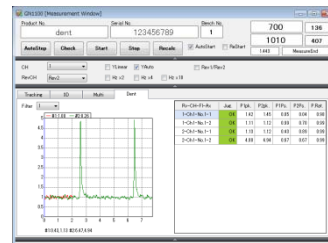
Calculation Rev. tracking



Calculation revolution can be set by combination of four arithmetic operation buttons and eleven functions, based on Rev.1 and Rev.2.

Button operation of functions and operators help effective setting. Up to four coefficients can be registered.

Dent Judgment



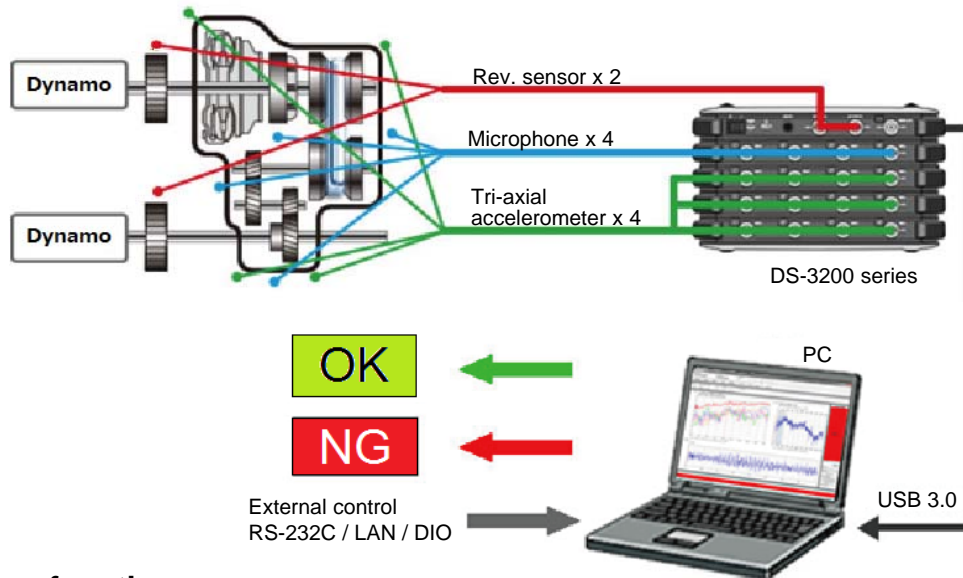
Capable of dent judgment during tracking measurement of acceleration/deceleration.

It reduces measurement time because it can be performed during tracking measurement.

1. Dent measurement : Up to 32 pairs
2. Number of rotation axis : Up to 6 axes
3. Reference rotation : Rev1/Rev2
4. Rotation ratio : Rotation speed ratio/gear ratio

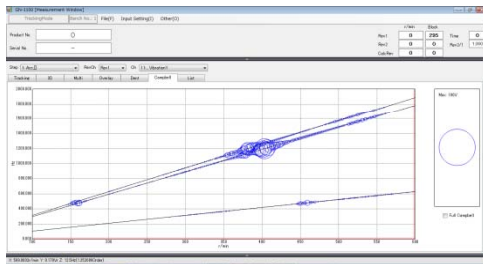
GN-1100 series

System Configuration



Various functions

Secondary Processing Function



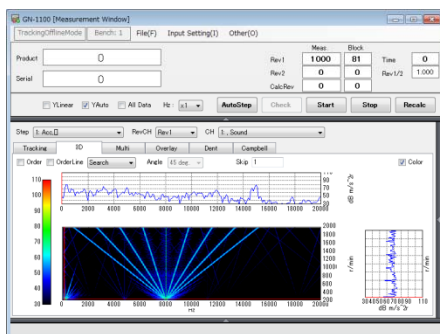
In addition to the recalculation function, multi screen display, overlaid graph display, campbell plot are provided. Analysis from various viewpoints is enabled.

Auto Sequence

Line	Command	Argument	Comment	Status
1	Start			OK
2	Auto	Rev/2...		OK
3	Auto	...		OK
4	Auto	...		OK
5	Auto	...		OK
6	Auto	...		OK
7	Auto	...		OK
8	Auto	...		OK
9	Auto	...		OK
10	Auto	...		OK
11	Auto	...		OK
12	Auto	...		OK
13	Auto	...		OK
14	Auto	...		OK
15	Auto	...		OK
16	Auto	...		OK
17	Auto	...		OK

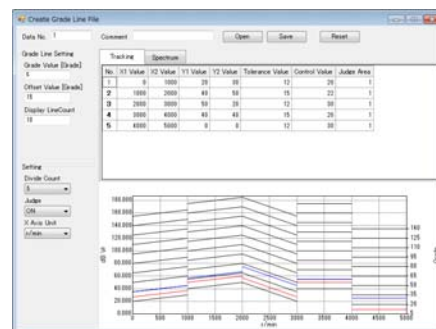
You can specify the series of operational commands from setting change to result output, and call them later to perform the same operation repeatedly. Describing commands promotes efficiency of recalculations, and reduces operation errors.

Offset Tracking



This function performs tracking analysis of the noise caused by the carrier frequency, which is used to change the frequency driving a gear from an inverter in hybrid automobiles, and the order originated from the carrier frequency.

Grade line function



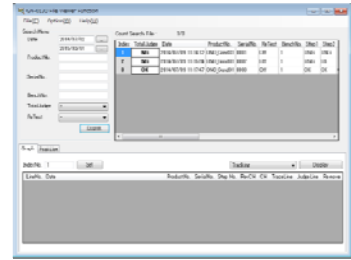
In grade line function, grade line is created as the base for comparing and assessing in a work by the measured peak values of sound/vibration in different measurement facilities.

Result File Viewer Function



GN-1100 Binary data

This function is for data management, and enables to narrow down the data files which has been measured and made judgment by GN-1100. It can perform overlay, and list display of peak value of each judging area.



◆Specification

Number of max.ch	32 ch
Frequency analysis range	40 kHz (2 to 8 ch) 20 kHz (10 to 16 ch) 10 kHz (18 to 32 ch)
Number of analysis tracks	16 tracks + OA
Frequency analysis	FFT 25 to 6400 lines/bundled of octave
Max. analysis order	1600th order
Rev. reference	Revolution1 / Revolution2 /calculation revolution speed based on Rev.1 and Rev.2
Average	Exponential average/moving average
Composite calculation	Sound: max.1 c h Vibration: max.10 ch

◆Operating Environment

Front end	DS-3202/3204 series
OS	Microsoft Windows® 7 Ultimate/Professional (64-bit) Microsoft Windows® 7 for Embedded Systems (64-bit)
CPU	Equivalent to or faster than Intel Core™i7 processor
Display	800X600 or more
Optical drive	CD/DVD drive (required in installation)

◆Product List

Model name	Product name	Functions
GN-1100	Noise Testing Software	Basic software, tracking and judgment of Rev.1 input.
GN-0100	ORF Input & Recalculation Function	Reading ORF file, recalculation
GN-0110	Secondary Data Processing Function	Reading of ORF file, recalculation, campbell diagram, overlay
GN-0130	File Viewer Function	Search for data file, overwriting, peak list display
GN-0140	Dual Rev Tracking Function	Simultaneous processing of tracking analysis and pass-fail judgment of 2 rotation inputs.
GN-0150	Calculation Rev Tracking Function	Simultaneous processing of tracking analysis and pass-fail judgment of the each three rotation input (Rev.1, Rev.2, and calculation revolution).
GN-0160	Dent Analysis Function	Dent judgment during tracking measurement of acceleration/deceleration
GN-0180	Auto Sequence Function	Measurement function by command files (GN-0100 included)
GN-0190	Offset Tracking Function	Offset tracking
GN-0200	Grade Line Function	Creating grade lines, setting of specification information, search function, and output of peak data

* Communication function is separately estimated.

* Please refer to each brochure for further information about DS-3000 series, MI series, and NP series.

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