Judgement Program

(Pass/Fail Evaluation)

SX-A1CMP

The Judgement Program SX-A1CMP is a software application for the RIONOTE Multifunction Measurement System.

It is suitable for pass / fail evaluation of noise, vibrations and other phenomena in production or inspection lines.

Judgement Program
(Pass/Fail Evaluation)
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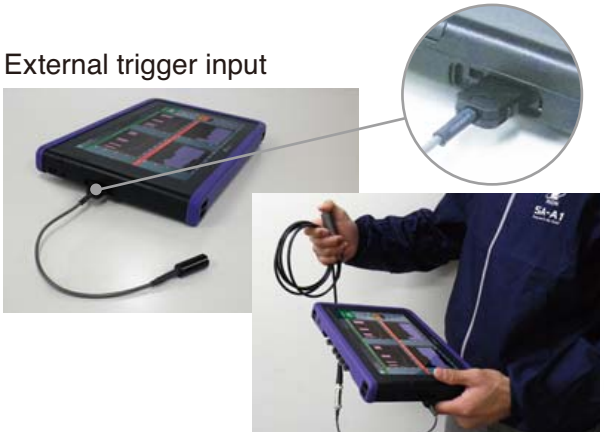
Allows setting threshold areas for FFT analysis results to determine pass/fail. Depending on the evaluation purpose, a suitable sensor can be selected from various types of microphones or accelerometers.
Operation control from a PLC is also supported as an option (using the Ethernet connector of the RIONOTE).

- After specifying one or more threshold areas in the frequency range where abnormality occurs, the program determines whether the respective measured peak level falls within the threshold area.
- Up to ten threshold areas can be set per channel, and the evaluation results of each channel can be linked by AND/OR logic to obtain a comprehensive evaluation.

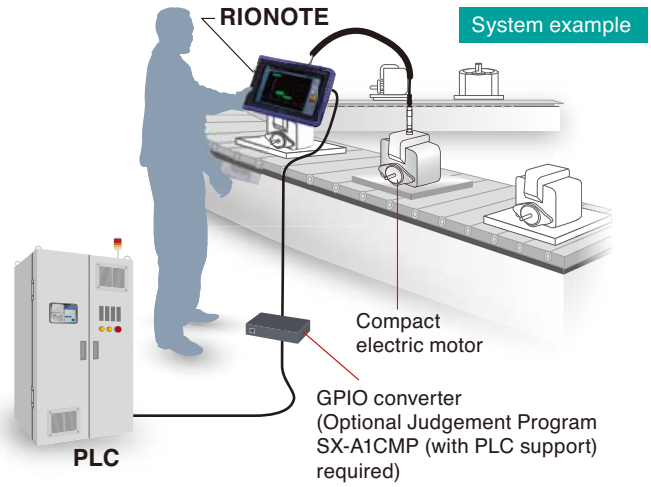
Features

- **A maximum of 10 settings for upper frequency, lower frequency, upper level, and lower level of a threshold area can be made per channel.**
- **The OK conditions for each threshold area can be set to IN, OUT, or Peak.**
- **Comprehensive evaluation can be obtained by using evaluation results from each channel and linking them with the channel-to-channel AND/OR setting.**
- **Simultaneously show power spectrum and evaluation result for each channel.**
- **Tapping a threshold area on the screen gives easy access to the settings for that threshold area.**
- **Measurement start can be triggered by external input or time waveform.**
- **Five sets of condition settings can be saved.**

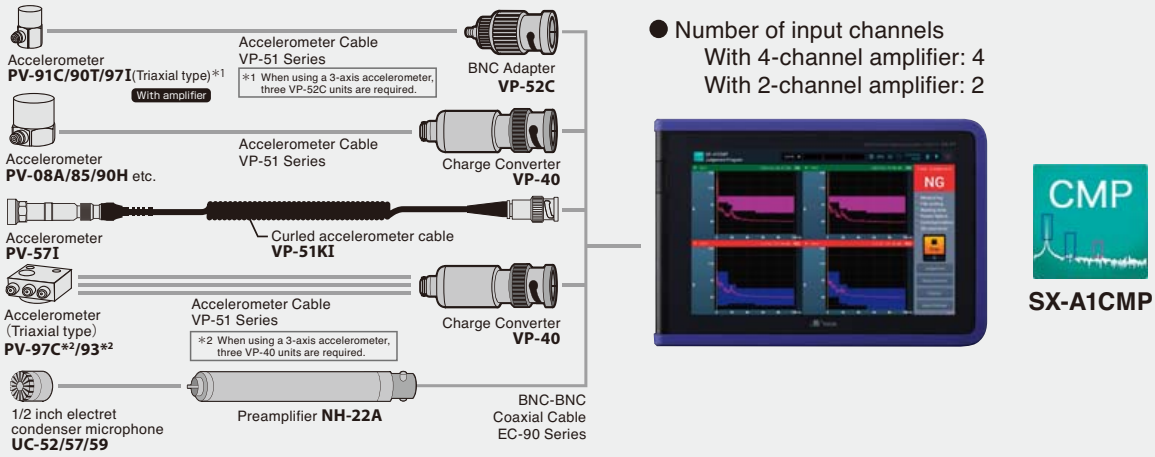
External trigger input



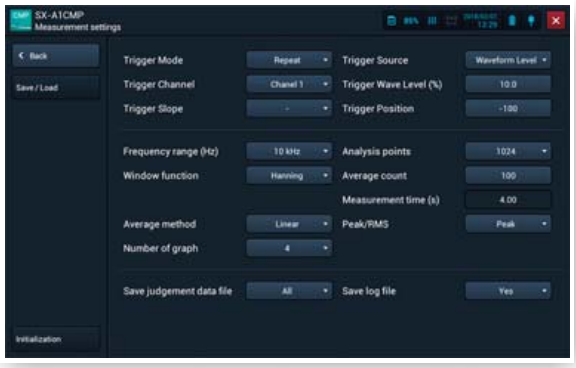
System example



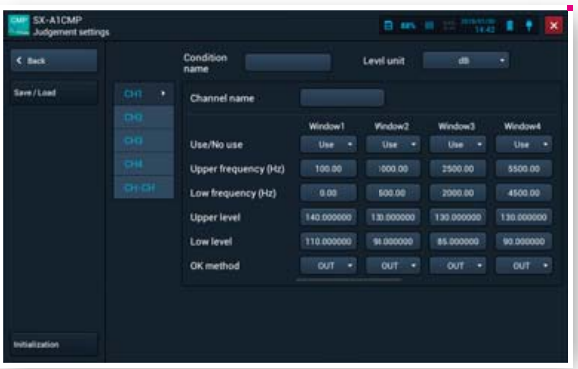
Connection examples



1-channel evaluation screen (Peak evaluation on each frequency domain)



Measurement settings screen



Judgement settings screen

Measurement condition specifications

Five sets of the condition settings below can be saved

Analysis frequency	100 Hz / 200 Hz / 500 Hz / 1 kHz / 2 kHz / 5 kHz / 10 kHz / 20 kHz
Analysis points	256 / 512 / 1024 / 2048 / 4096
Window function	Rectangular / Hanning / Flat-top
Average method	Linear / Max.
Average count	1～1024
Waiting time	0.0 to 999.9 seconds
Indication characteristics	Peak / RMS
Number of graphs	1 / 2 / 4
Trigger mode	Free / Repeat
Trigger source	External / Time wave
Save judgement data file	NG / OK / All / No save
Log file save	Yes / No

Judgement Program SX-A1CMP (Option)

Input	Evaluation condition switching, measurement start / stop control
Output	Evaluation result, SX-A1CMP operation status, error information

Ordering Information

Type	Model
RIONOTE 2-Channel Judgment Package	SA-A1CMPB2
RIONOTE 4-Channel Judgment Package	SA-A1CMPB4
Judgement Program	SX-A1CMP
GPIO converter	Please contact us.
Judgement Program SX-A1CMP (with PLC support)	XS-A1CP2

ilac-MRA IA Japan Accredited Calibration JCSS JCSS 0197

RION Co., Ltd. is recognized by the JCSS which uses ISO/IEC 17025 (JIS Q 17025) as an accreditation standard and bases its accreditation scheme on ISO/IEC 17011. JCSS is operated by the accreditation body (IA Japan) which is a signatory to the Asia Pacific Laboratory Accreditation Cooperation (APLAC) as well as the International Laboratory Accreditation Cooperation (ILAC). The Quality Assurance Section of RION Co., Ltd. is an international MRA compliant JCSS operator with the accreditation number JCSS 0197.

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