



# 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) **SX-A1CMP**

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.

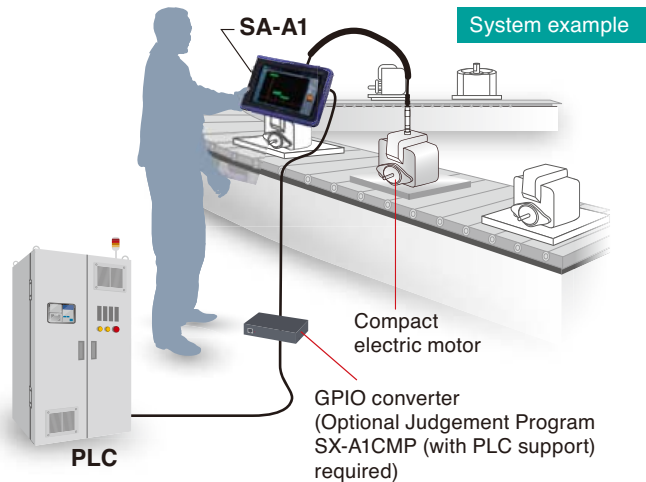




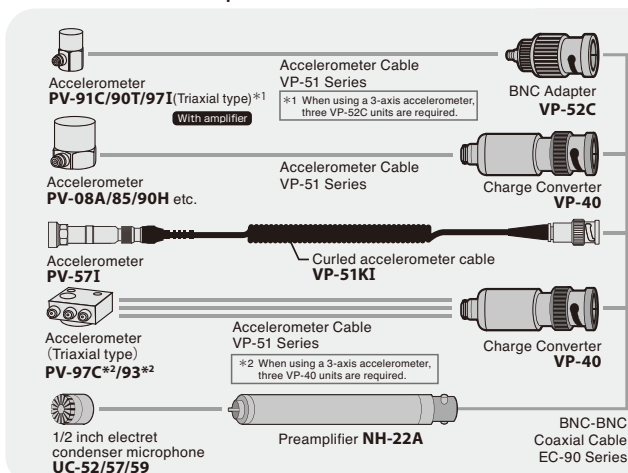
### Features

- 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.

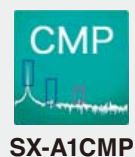
### External trigger input



### Connection examples

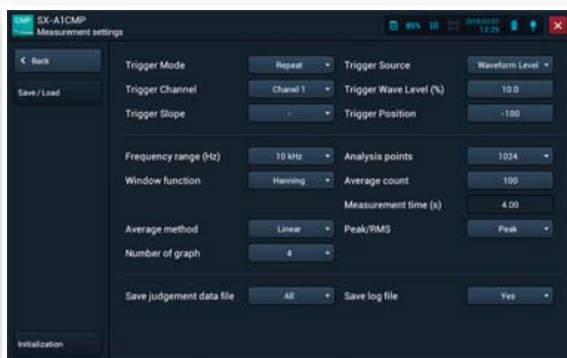


- Number of input channels  
With 4-channel amplifier: 4  
With 2-channel amplifier: 2

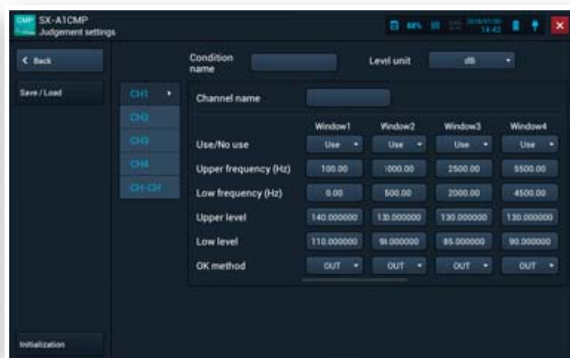




1-channel evaluation screen (Peak evaluation on each frequency domain)



Measurement settings screen



Judgement settings screen

#### Measurement condition specifications

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)

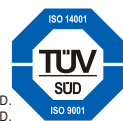
Input	Evaluation condition switching, measurement start / stop control
Output	Evaluation result, SX-A1CMP operation status, error information

#### 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



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