Load test data logger

MODEL　ODR－639

Summary

This model measure a voltage, current and electricity of audio signal input to the speaker during load testing and record up to 100h.

Appearance figure

【Basic configuration】

- Main unit
- Laptop

【Optional accessories】

- ODR-639 exclusive viewer software　ODR-639V
  Can open a file recorded in an environment without the ODR-639 control unit,
  Dedicated software that can perform frequency analysis and various analyses.
- 6ch voice coil temperature meter unit　AP-1639
  AP-1639 is simultaneously records temperature changes of the speaker unit and
  Voice coil during operation of 6channnels when used in combination with ODR-639.

Specifications

[Record data analysis]

- Synchronized playback of recorded waveforms and audio signals and frequency analysis (arbitrary setting from 1/3, 1/6, 1/12oct.) are also possible.
- The effective value and peak value of the area specified by drag and drop can be displayed.
- This model can search, sort by any voltage, current, or power condition, and find the time.
- This model can save bookmarks (tagging) and comments at any time and search for them.

[File output]

- Save / read in proprietary format.
- CSV output of time stamp and RMS, current, power value, peak voltage, current, power value and sound pressure for each channel.
- Screen display to JPEG output.

【Basic performance】	
Number of recording channels	Speaker：6ch (voltage, current, power)
Recording time	Up to 100h every one second (selection of 1s / 10s / 1min / 1h) Up to 50h when frequency analysis 1/12oct. is selected
Voltage range	30VPeak　resolution 1mV
Current range	10APeak　resolution 1mA
The recoded value	Effective value, peak value (voltage, current, electricity)
Voice recording	1 record channel of the voice in WAV format (1s recording mode only)
【Detailed performance】	
Voltmeter input impedance	20kΩ
Ammeter	Through-type current sensor
Sampling frequency The number of quantization bits	48kHz 16bit
【Temperature / Humidity range】	5℃ to 35℃ / 20% to 90% (No condensation)
【Power requirements】	AC 100, 110, 120, 220, 230, 240V ±10% (Voltage can be specified at the shipment　50/60Hz)
【Power consumption】	10W
【Dimensions / Mass】	350(W)×120(H)×310(D) ／ Approx. 3.8kg
【Accessories】	Power cable ····· 1pcs. USB cable ····· 1pcs.

Specifications are subject to change for improvement

ODR-639 exclusive viewer software

MODEL　ODR－639V

Summary

This software allows you to view and analyze the results recorded by the load test data recorder in an environment without a control unit for the load test data recorder.

Display and analysis function

- Indication of voltage, current and power（fig.1）
  (RMS and peak values of current, voltage and power per second.)
- Display span can be set after measurement.
- Performs 1/3oct frequency analysis while synchronizing playback of recorded waveform and audio signal.
- Displays the RMS and peak value of the area specified by drag and drop.（fig.2）
- Search and sort by any voltage / current / power condition, and search for that time with one click.（fig.3）
- At any point save bookmarks and comments.（fig.4）

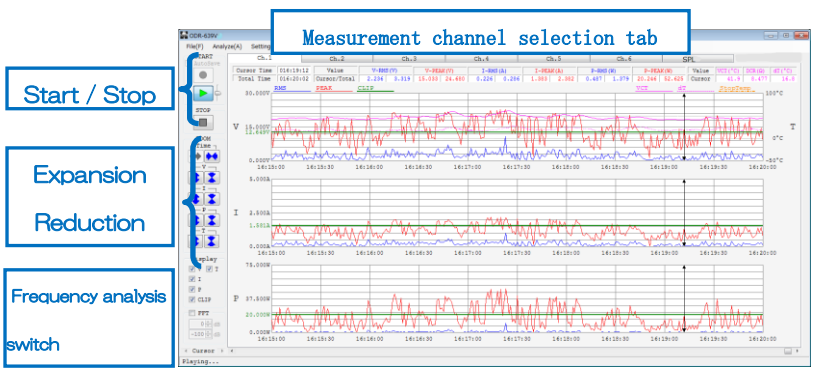
File output

- CSV output of time stamp and RMS, current, power value, peak voltage, current, power value and sound pressure for each channel.
- Screen display to JPEG output.

System requirements

Windows7 / 10　Screen resolution 1366×768 or more

Fig.1. Voltage Current Power　Viewer screen



Frequency analysis screen

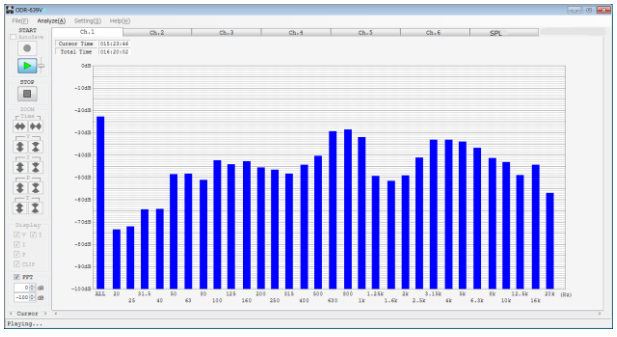


Fig2. Displays the RMS and peak value of the area specified by drag and drop

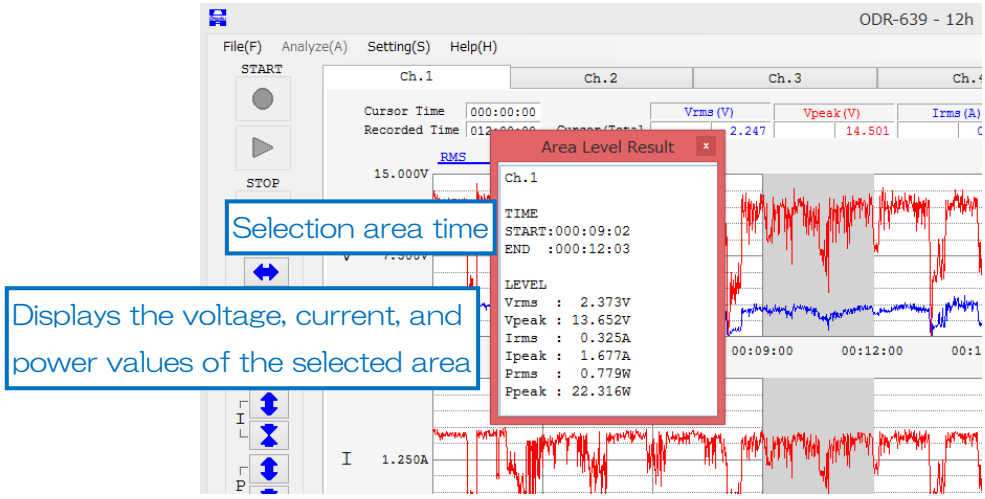


Fig3. Search and sort by any voltage / current / power condition, and search for that time with one click.

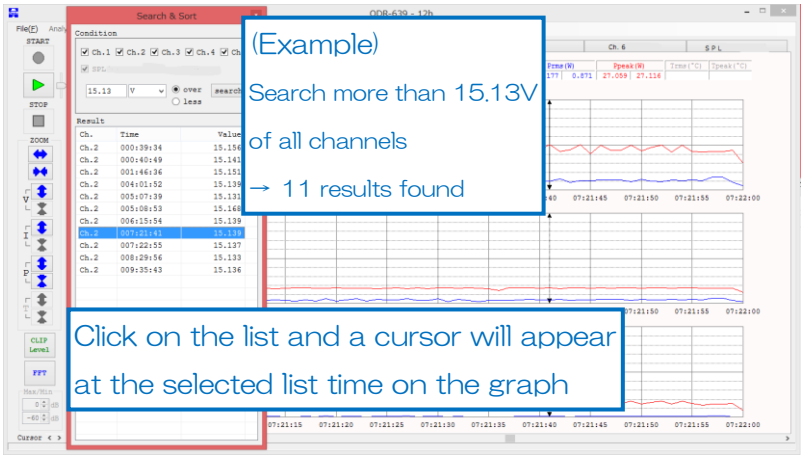
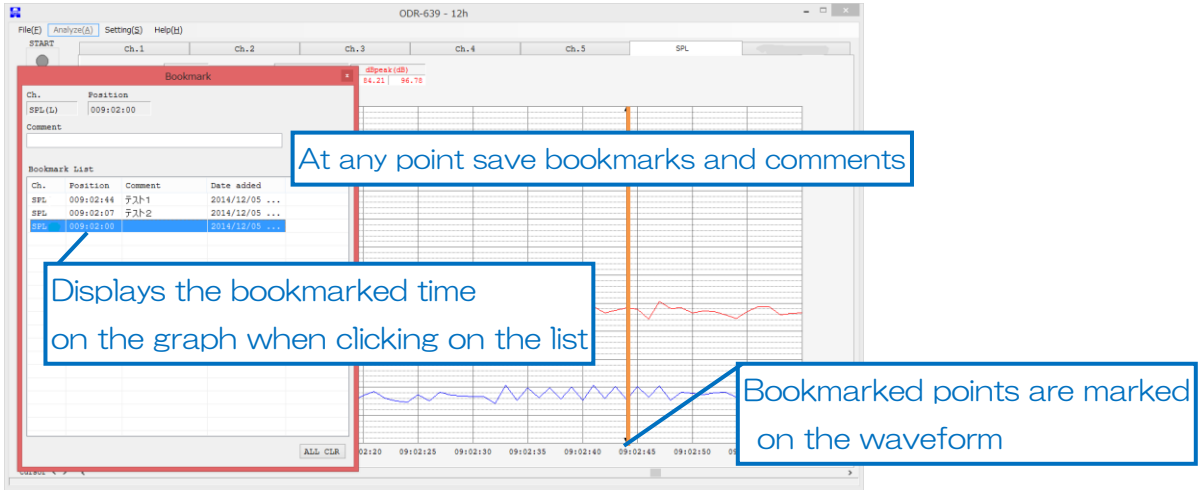


Fig4. At any point save bookmarks and comments



Specifications are subject to change for improvement

Onsoku

http://www.onsoku.co.jp

Vice coil temperature meter unit

（ODR－639 optional accessories）

Model　AP－1639

Summary

This unit, combined with the load test data recording device ODR-639, is a unit that can record changes in voltage, current, power and as well as voice coil temperature.

A measurement item indicates a chart and the value to time between the temperature and the input voltage.

Specifications

- Number of recording channels　：6
- Measurement temperature range　：-40℃ to 400℃
- Environmental temperature　：-40℃ to 100℃
- Speaker DC resistance range　：1.5Ω to 40Ω　(at 20℃)
- Material of voice coil　：copper, aluminum
- Maximum input voltage　：30V peak

  (While a noise source is applied, the power amplifier must not be clipped by a peak of the noise signal.)
- Maximum input power　：300W peak
- Response selector　：2 positions to change low-pass cut off frequency
- Power requirements　：AC100,110,120,200,210,220,230,240V　±10%

  Voltage can be specified at the shipment.　50/60Hz
- Power consumption　：Approx. 50VA
- Dimensions　：350(W)×120(H)×380(D)mm
- Mass　：Approx. 11kg

Appearance figure

Specifications are subject to change for improvement

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