KYOWA

EDX-200A

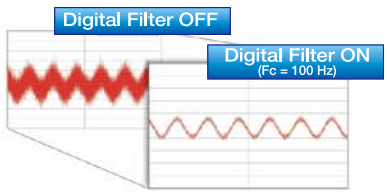
UNIVERSAL RECORDER

The new EDX-200A provides dual sampling and real-time processing functions such as digital filtering.

POINTS

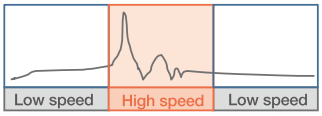
Real-time digital filtering

Enables clear waveform acquisition.



Dual sampling at high/low speeds

2 sampling frequencies, high and low, can be preset for each channel, thereby enabling high-speed data acquisition only when sharply changing phenomena are detected. In the ordinary status data is gently recorded at the frequency.



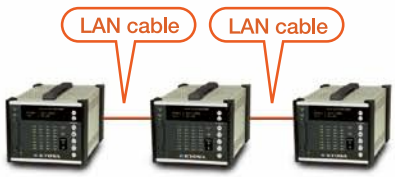
High-speed sampling in multiple channels

EDX-200A
32 channels → 10 kHz
3 channels → 100 kHz

EDX-100A
32 channels → 5 kHz
1 channel → 100 kHz

Synchronization via single wire

Up to 8 units can be synchronized by connecting units via LAN cables. No LAN hub is required.



Built-in organic EL monitor

Enables confirmation of measuring conditions, the file name and IP address, etc. if operated off line with no PC connected.

Conditioner cards are common for EDX series.

Conditioner cards used for EDX-100A, EDX-2000A/B or EDX-3000A can be used for the EDX-200A as well.

• DCS-100A dynamic data acquisition software is provided standard.

Specifications

Model	EDX-200A-4H
Max. Number of Input Channels	32 (with four 8-channel conditioner cards mounted)
Number of Slots	Conditioner card slots: 4 Option slot: 1
Weight	Approx. 2.1 kg (mainframe only)
Dimensions	165(W) x132.5(H) x 255(D) mm (excluding protrusions)
Applicable Sensors	Strain gage, strain-gage transducer, voltage-output sensor, thermocouple, F-V converted pulse-output sensor, piezoelectric acceleration transducer (with built-in amplifier), CAN signal
Voice Memo Input	1 (Input voice memo can be recorded together with measured data.) Optional RCU-42A remote control unit is required. Recorded voice memo can be reproduced by using the optional DAS-200A data reproduction software.
Sampling	Sampling method: All channels synchronized Sampling mode Normal: The same sampling clock is used for data acquisition in all channels. Dual: 2 high/low-speed sampling clocks are set for data acqusition in each channel. Sampling frequency Normal sampling mode 1-2-5 system 1 Hz to 100 kHz 1 Hz to 2 kHz for CAN data measurement 2^n system 2 Hz to 65536 Hz 2 Hz to 2048 Hz for CAN data measurement Dual sampling mode Fast sampling (Sf) 1-2-5 system 1 Hz to 100 kHz 2^n system 2 Hz to 65536 Hz Slow sampling (Ss) 1-2-5 system Result obtained by dividing the preset fast sampling frequency in 1-2-5 system, with Ss ≤ Sf/4 2^n system Result obtained by dividing the preset fast sampling frequency in 2^n system, with Ss ≤ Sf/4 Number of data acquisition channels Normal sampling mode 320000/Integral part of preset sampling frequency, with a maximum 32 channels Dual sampling mode 320000/integral part of preset fast sampling frequency, with a maximu 32 channels CAN data measurement Maximum 24 channels + CAN data channels
Digital Filter	8th order Butterworth low-pass filter (not applicable to CAN data) Amplitude ratio at cutoff point: –3 dB Attenuation characteristics: –48 dB/oct. Usable in combination with the low-pass filter mounted to the conditioner card
Data Storage	CF card Capacity: 128 MB to 16 GB (recommended by KYOWA)

Ext. Control Connectors	CONT IN, CONT OUT (for remote control and synchronized operation)
Communication Interface	USB (USB 2.0 High Speed) 1 port Connector: Series B receptacle LAN (10/100BASE-T) 2 ports (lower port for synchronized operation) Connector: RJ45 modular jack
Condition Setting Method	Online setting: With PC connected via LAN or USB port Offline setting: By reading measuring conditions written in ithe CF card (DCS-100A is used for setting measuring conditions.)
Saving Conditions	Conditioner setting conditions and measuring conditions are saved in the built-in nonvolatile memory. Upon power on, the EDX-200A is ready for data acquisition with the measuring conditions just before turned off.
Measuring Mode	Manual/Trigger/Interval Manual measurement A press of the REC/PAUSE button starts data acquisition, which will be stopped by pressing the STOP button or when data points are recorded in the preset number. Voice memo can be recorded in the manual mode only. Trigger measurement Data acquisition is made automatically based on preset trigger conditions. • CAN data cannot be used for any trigger condition. Interval measurement Data acquisition is made automatically based on preset interval measurement conditions.
Start/Stop	Through PC, front panel buttons or the dedicated remote control unit.
Balance Adjustment	Balance of strain input channels can be adjusted through PC, front panel BAL. button or the dedicated remote control unit.
Acquired Data Format	KYOWA standard format KS2 The KS2 format enables data analysis with the optional DAS-200A data analysis software.
Data Collection	Online to the PC connected via LAN or USB port, or offline to the PC by letting it read data from the CF card
TEDS Function	Effective only under online PC control Compatible conditioner cards: CDV-40B(-F), DPM-42A(-F), CCA-40A(-F), CDV-44AS, CDA-44AS, CDA-45AS, CVM-40A
Power Supply	10 to 36 VDC Connector: HIROSE RM12BRD-4PH DC power supply or optional AC adapter is required.
Current Consumpt.	Approx. 2.6 A (with 12 VDC and 4 CDV-40B cards mounted)
Oprg. Temp. Range	0 to 50°C
Oprg. Hmd. Range	20 to 90% RH (noncondensing)
Stor. Temp. Range	–20 to 60°C
Vibration Resistance	49.0 m/s² (5 G), 5 to 55 Hz (when not operating) 29.4 m/s² (3 G), 5 to 55 Hz (when operating)
Shock Resist.	196.1 m/s² (20 G)/11 ms

Specifications are subject to change without notice for improvement.

Safety precautions Be sure to observe the safety precautions given in the instruction manual, in order to ensure correct and safe operation.

JQA-0821
JQA-EM4824

Reliability through integration

KYOWA

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