# **EDS-400A**

## **Compact Recorder**



## Compact & lightweight. 4-channel measurement per one unit

- Cascade connection of 8 units enables synchronous measurement in up to 32 channels.
- High-speed sampling at 100 kHz in 1 channel
- •Synchronous sampling at 20 kHz in 4 channels
- Possible of measuring both strain and voltage signals
- Suitable as on-vehicle data logger
- LAN port provided standard
- Analog filters provided standard
- Data Acquisition Software DCS-100A available (Option)
- Data Analysis Software DAS-200A\* also available (Option)
- \* For DAS-200A, see page 4-9.



For LAN connection, Use 2 straight cables and a LAN hub.

### Compact & Lightweight

Connected to strain gages, strain-gage transducers and voltage-output sensors, the EDS-400A digitally records 4 channels of dynamic variables at high speed by built-in 16bit A/D converters.

It is set up from the PC via LAN or by inserting the CF card in which measuring conditions are written beforehand.

Variables under measurement are digitized and saved to the CF card. If required, the data can graphically be monitored on the PC connected via LAN.

Saved data is transferred to the PC, online via LAN or offline via a CF card.

The software, a standard provision, enables the PC to present the data on graphic window, while the optional Data Analysis Software DAS-200A enables data analysis in various ways.

#### **Hardware Specifications**

Channels 4	
Connector R05-I	R5F (Tajimi)
Applicable plug	R05-PB5M (Tajimi)
Measuring Targets	Strain gages (Full bridge system),
	Strain-gage transducers,
	Voltage
Applicable Bridge R	Resistance 120 to 1000 Ω (Full bridge system)
Gage Factor 2.00 fix	red
Bridge Excitation	2 VDC
Measuring Targets	
Strain 1 k, 2 k	, 5 k, 10 k, and 20 k μm/m
Voltage 1, 2, 5,	10 and 20 V
Accuracy Within	±0.5%
Balance Adjustmen	t (Zero Suppress)
ON/OFF setting po	ossible for each individual channel
Adjustment Meth	nods True electron method (Adjustment value is saved
	in nonvolatile memory.)
Adjustment range	e
Strain input	Resistance ±2% (±10 k μm/m)
Voltage input	±10 V
Max. Input Voltage	±30 V (For voltage signals)
Frequency Respons	e* DC to 20 kHz (Deviation: 3 to -1 dB)
LPF Transfer charact	teristic: 2nd order Butterworth
Cutoff frequence	cies: 20, 200, 2 k Hz and FLAT (4 steps)
Amplitude ratio	o: -3 ±1 dB (At cutoff point)
Attenuation: (-1	12 ±1) dB/oct.
A/D converter	16 bits
Sampling Methods	Synchronous sampling of all channels
Sampling Frequence	ies 1, 2, 5, 10, 20, 50, 100, 200, 500,1 k, 2 k, 5 k,
	10 k, 20 k, 50 k, and 100 k Hz (16 steps)
Note: Sampling at	50 kHz is possible for 1 or 2-channel measurement.
Sampling at	100 kHz is possible for 1-channel measurement only.
Operating Switches	START/STOP, ZERO, READ
Method of Setting I	Measuring Conditions
	in which measuring conditions are written beforehand
Start/Stop of Recor	ding From PC, panel switch or ext. contact points
Balance Adjustmen	t From PC, panel switch or ext. contact points
LED Lamps	
	up when the EDS is turned on.
SYNC Lights	up to indicate synchronization condition.
MEAS Lights	up to indicate measurement in progress.
1, 2, 3, 4 Indicat	e channel status.
READ Lights	up to indicate condition setting in progress.



Operation Mo		
	ART signal from PC or a press of the front pa	
	ART/STOP button starts recording. It stops re	
	on recording to a preset number of measure	
	en receiving STOP signal from PC or when t	ne START/
	OP button is pressed once again.	
	ART signal from PC or a press of the front pa	
	OP button lets it wait for trigger signal, and s	
	ording when the trigger condition is satisfie	
	ording upon recording to a preset number o	
	ues. Pretrigger data may be included in the	number of
	asured values by setting.	
Trigger Funct		
Trigger sou	e External trigger signal, analog input	
Trigger leve	Set for analog trigger mode only,	
	in the full scale range in plus and minus	directions.
Trigger slope	Up, down or both	
Pretrigger o	a points to be recorded	
Set in a ra	e of 0 to 2000.	
Backup Funct	s Setting conditions, balance adjustment	data (Saved
	in the internal nonvolatile memory)	
LAN Port	10BASE-T/100BASE-TX	
Connector	RJ-45 modular jack	
Monitor Disp	Waveform, bar graph and numeric data	is
	monitored on the PC via a LAN port.	
Data Storage	CF card (128 MB to 2 GB; writing speed	45x)
Synchronous	peration	
Dedicated s	chronous cable enables connection of up to	8 units in
cascade for	nchronized recording. While data is individua	ly recorded
in separate	s in CF cards inserted into recorders, it is cor	nbined to a
single file af	transferred to the PC.	
Operating Ter	perature 0 to 50°C	
Operating Hu	idity 20 to 90% RH (Non-condensing)	
Vibration Res	ance 49.03 m/s <sup>2</sup> (5 G) (5 to 55 Hz) (When c	perating)
Power Supply	10 to 16 VDC, approx. 0.6 A (12 VDC)	
	Power connector: RM12BRD-4PH (Hirose)	
Storage Temp	ature -10 to 60°C	
Operating En	onment No dust and no induction noise fr	om
	large-capacity motors, etc.	
Dimensions	100 W x 50 H x 110 D mm (Excluding protru	isions)
Weight	Approx. 500 g	

#### Standard Accessories

DC power cable P-76
Compact flash memory card (128 MB)
Control software EDS-40A and Instruction Manual (CD-R)
Rubber feet

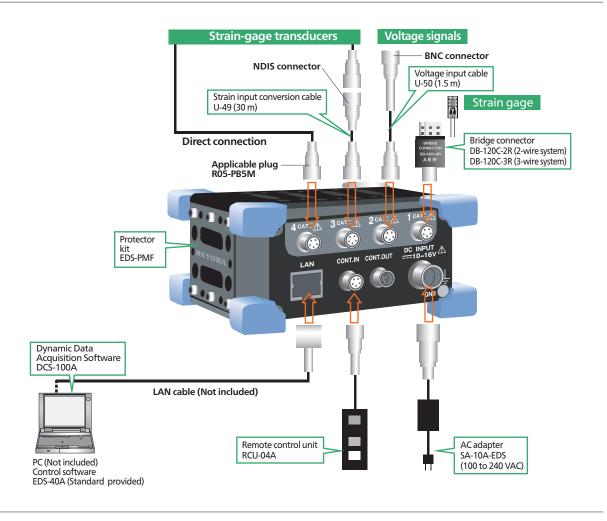
#### Optional Accessories

Strain input conversion cable U-49 (30 cm)
Voltage input cable U-50 (1.5 m)
Synchronous cable N-79 (20 cm)
AC adapter SA-10A-EDS (100 to 240 VAC)
Bridge connectors DB-120C-2R (2-wire)/DB-120C-3R (3-wire)
Remote-control unit RCU-04A
Protect unit EDS-PMF
Synchronous signal long-distance transmission unit (A05-2452)
Dynamic Data Acquisition Software DCS-100A
Data Analysis Software DAS-200A

# DCS-100A software for EDS-400A section For details of DCS-100A, see page 4-3.

or details of DCS-1	00A, see page 4-3.
Controllable Units 8 (	Max. 32 )
Interfaces LAN	
Data Storage Measure	d data is saved to CF card in the EDS or data
folder in	the PC
Channel Conditions	
Measuring channel, r	measuring mode (Strain/ voltage), range, zero
suppression ON/OFF,	test ON/OFF, calibration coefficient, offset,
	neasuring range, rated capacity, rated output,
numerical value displ	ay digits (Selection of arbitrary display items is
possible)	
Setting/Loading Paran	neters Loads parameters from EDS and
	sets the parameters in the EDS
Collecting Data Collecting	cts data saved in the CF card in the EDS via
LAN	or CF card in the PC.
Erasing Data Erases da	ata via LAN in on-line or off-line
<b>Environmental Setting</b>	S
Hardware configura	tion
Number of connect	ed recorders, setting device name
Allows hardware c	onfiguration of the recorder to be read if it is
connected to the P	
Communication stat	us Checked by reading the version of the EDS
	from the PC via LAN. It is saved in CF card.
Measurement Condition	ons for Saving Data in CF Card
	1 Hz to 100 k Hz (Depends on the number of
	measuring channels)
Data File Size	Max. 2 GB (Depends on the number of
	measuring channels)
Measured Modes	Manual, analog trigger, and external trigger
Manual Measurement	Measurement is made from a press of the REC
	button to a press of the STOP button or to
	completion of recording to the preset number
	of measurements.
Trigger Measurement	Measurement is made automatically at preset
	intervals from the preset starting time
Delay before trigger	Max. 2000 data points
	(Depends on the sampling frequency)
Analog Trigger Measu	
Trigger channels	1 host channel
Trigger level	Sets in physical quantity
Trigger slope	Up, down or both
Measurement Condition	ons for Saving Data in PC Hard Disk
Sampling Frequencies	
Data File Size	Capacity of the hard disk
Measuring Modes	Manual, interval, and analog trigger
Manual Measurement	Measurement is made from a press of the REC
	button to a press of the STOP button or to
	completion of recording to the preset number
	of measurements.
Interval Measurement	Measurement is made automatically at preset
	intervals from the preset starting time
Analog Trigger Measure	ement Start/stop recording based upon
	specified trigger conditions
Trigger Conditions	·
End trigger: Settable	
	er trigger: Max. 32 k data points
	nber of measuring channels)
Trigger channels: 1 ho	
Trigger level: Sets in p	
Trigger slope: Up, dov	
55:	·

CPU OS	Pentium III 700 MHz or higher
U3	Windows 2000 (Professional)
	XP (Professional, Home Edition)
Memory	256 MB or more
Interfaces	10BASE-T/100BASE-TX
Hard Disk	Blank space 10 MB or more
	(Excluding space for measured data)
Display	1024x768 pixels or more, full color
CD-ROM Drive	e Required to install the control software
Setting Measu	uring Conditions
Measuring	targets Strain gages, strain-gage transducers, voltage
Channels N	Max. 32 (8 units of EDS-400A)
Sampling Fi	requencies 1, 2, 5, 10, 20, 50, 100, 200, 500,
	1 k, 2 k, 5 k, 10 k, 20 k, 50 k, and 100 k Hz
Measuring	Modes Manual, analog trigger, external trigger
Recorded d	ata points 0 to 500 million
	(The number depends on blank space of
	CF card.) If 0 is set, data is recorded
	using the full capacity of card.
Setting Meası	uring Channel Conditions
	tting Set measurement for each channel
	vidually selectable for each channel
	in: 1 k, 2 k, 5 k, 10 k, 20 k μm/m or OFF or OFF
	age: 1, 2, 5, 10, 20 V or OFF
	ually selectable for each channel
	), 2000 Hz or FLAT (20 kHz)
Calibration	coefficient A value by which the measured value is
	multiplied is set for each channel.
	and add to the value obtained by multiplying the
mea	asured value by calibration coefficient.
	table for each channel from 60 different
units	; also, a desired unit is possible.
	me Possible input each channel's name
	ess ON/OFF Possible channel by channel
	ng Measuring Conditions
Measuring o	conditions and measuring channel conditions are saved
	ed name. The file is read to set up the recorder with
	nditions as previous.
Monitoring D	ata in Graphic Format
Data is grap	hed with measuring times on X axis.
	nea with measuring times on x axis.
Y-time grap	
	Data is graphed with measuring times on X axis.  The measuring times is set up to 1200.
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Bar graph  X-Y graph  Real-time re  Measuring Measuring Measuring dather CF card. connected, automatical Analog trig  External trig	h Data is graphed with measuring times on X axis.  The measuring times is set up to 1200.  The graph may include up to 8 channels (Numeric datis simultaneously displayed.)  Data is graphed with up to 8 channels on X axis.  (Numeric data is simultaneously displayed.)  Data is graphed with up to 7 channels on Y axis for 1 channel on X axis.  ecording graph With X axis for measuring times, the graph may include variables in up to 8 channels.  (Numeric data is simultaneously displayed.)  Note however that waveform display is not available when monitoring data.  odes Manual mode, analog trigger mode, and external trigger mode  asurement Pressing the START/STOP button starts at and saves the preset number of measured values in 1f the sampling frequency is 10 kHz or lower and PC is data may  ly be collected in real time in the PC.  ger measurement When the trigger condition is satisfie at the trigger channel, the EDS-400A starts recording data and saves the preset number of measured values in the CF card.  gger measurement An external trigger signal starts the EDS-400A recording data and saves the preset number of measured values in the CF card.  Data Recorded data file is reproduced graphically or converted to CSV format.
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Bar graph  X-Y graph  Real-time re  Measuring Measuring Measuring dealy the CF card, connected, automatical Analog trig  External trig  Reproducing  Y-time grap	h Data is graphed with measuring times on X axis.  The measuring times is set up to 1200.  The graph may include up to 8 channels (Numeric datis simultaneously displayed.)  Data is graphed with up to 8 channels on X axis.  (Numeric data is simultaneously displayed.)  Data is graphed with up to 7 channels on Y axis for 1 channel on X axis.  ecording graph With X axis for measuring times, the graph may include variables in up to 8 channels.  (Numeric data is simultaneously displayed.)  Note however that waveform display is not available when monitoring data.  odes Manual mode, analog trigger mode, and external trigger mode  asurement Pressing the START/STOP button starts at and saves the preset number of measured values in 1f the sampling frequency is 10 kHz or lower and PC is data may  ly be collected in real time in the PC.  ger measurement When the trigger condition is satisfie at the trigger channel, the EDS-400A starts recording data and saves the preset number of measured values in the CF card.  gger measurement An external trigger signal starts the EDS-400A recording data and saves the preset number of measured values in the CF card.  Data Recorded data file is reproduced graphically or converted to CSV format.  th Up to 8 channels of data is graphed.



#### Dimensions

