

DIS-5210A

Data Logger for Crash Test



DIS-5210A is designed to record dummy qualification data, component test data, etc.

- 8 channels/unit
- Large-capacity flash memory
- LAN (Ethernet) 100BASE-TX interface
- It enables measurement of signals of foil/ semiconductor strain gages, strain-gage transducers and voltage-output sensors as well as digital signals.
- PC controlled

Connects various sensors: strain gages, strain-gage transducers, piezoresistive transducers, voltage-output sensors, potentiometer type transducers. Data from sensors are amplified, A/D converted and saved to large-capacity memory.

General specifications

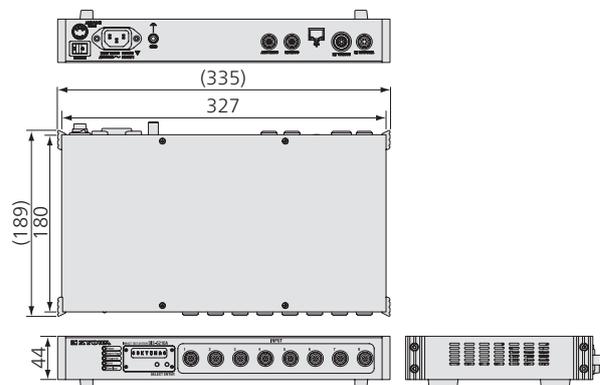
Operating temperature	0 to 50°C
Operating humidity	10 to 80%RH (Non-condensing)
Power supply	100 to 240 VAC
Dimensions	327 W x 44 H x 180 D mm (Excluding protrusions)
Weight	2 kg or less

Individual specifications

■ Analog input	
Number of input channels	8
Input connector	EGG.1B.307 (Matching plug FGG. 1B.307)
Input format	Balance differential input
Input resistance	Bridge sensor measurement: Approx. (10 + 10 M Ω) Voltage measurement: Approx. (100 + 100 k Ω)
Input voltage	± 20 V
Gain	$\times 0.1$ to 0.9 ($\times 0.1$ step) $\times 1$ to 5000 ($\times 1$ step)
Gain accuracy	Within ± 0.2 % FS
Balanced adjustment	Gain $\times 0.1$ to 0.9 : ± 10 V $\times 1$ to 19 : ± 1 V $\times 20$ to 99 : ± 50 mV $\times 100$ to 5000 : ± 10 mV
■ Bridge power supply	
Voltage Apply Method	Each channel on/off switchable.
Bridge Excitation	10, 5, 2 VDC, and OFF
Bridge configuration	Half or full bridge system
Bridge resistance	120 Ω to 5 k Ω
Accuracy	Within ± 0.1 %
Maximum current	30 mA or less

■ Filters	
Fixed filter	SAE standard. Conforming to CFC1000 Overshoot 5% or less
Transfer characteristics	Transfer characteristics: 5th order Butterworth Cutoff frequency: 50, 100, 200, 400, 1 k, 2 k, 4 k, 10 k, and 20 k Hz Cutoff accuracy: -3 ± 2 dB Attenuation: -30 dB/oct.
■ A/D Conversion	
Resolution	16 bits
Sampling	100, 200, 500, 1 k, 2 k, 5 k, 10 k, 16 k, 20 k, 50 k, and 100 k Hz, all channels in sync.
S/N	50 dB or more (With fixed filter)
■ Digital Input	
Number of channels	16
Measuring targets	Non-voltage contact
Input formats	Isolation input
■ Data recording section	
Data recording memory	750 k Word/channels SRAM (Battery backup) (Save data for 75 s at 10 kHz sampling) Holding time: Approx. 3 h (Backed up using a super capacitor when the power is turned off)
Data Storage Memory	64 MB flash memory
Triggers	
External triggers	Two no-voltage contact inputs (Isolation input), trigger 1 and 2
Level triggers	Operated by level of arbitrary 3 channels
Cascade triggers	Operated by trigger output between units or triggers output of conventional device.
Software triggers	Operated by command issued from the external PC The software trigger detects the event above and records the data before and after
■ Synchronous Connection	
Cable connection	Max 16 units are connected by cables
■ TEDS Functions	
	IEEE-1451.4 compatible (Mixed Mode Transducer interface Class 2) Read (All areas) and write (Only a user area)
■ Interfaces	
	Conforming to 100BASE-TX
■ Indicators	
LED	Status display LED: Ready for trigger, triggered, error, and overflow
LED Monitor	Displays DIS-5210A status in 8 alphanumeric
■ Check Functions	
	Sensor check, wire break check, gain check, excitation voltage check, memory check
■ Log Functions	
	Records the operation log in the DIS-5210A

■ Dimensions



DIS-5210A
Recommended
products for
combination

