

MCA-200A

Combined G-resistant Data Logger



Built-in conditioner cards Maximum 256 measuring channels

- Applicable for measurement of static and dynamic phenomena alternately
- Synchronous sampling of all channels with a resolution of 16 bits
- Max. sampling frequency is 100 kHz, and synchronous sampling at 5 kHz is possible in 128 channels
- With 196 m/s^2 (20 G) G-resistance or more and is used under static and dynamic acceleration states
- Possible of read TEDS built-in sensor information
- A variety of conditioner cards* (Thermocouple card, FV card, charge amplifier card, dynamic strain measuring card)

* For conditioner card specifications, see page 3-73.

Measure up to 256 channels with G resistant universal recorder. Combine all types of amplifiers to connect sensors for strain gages, voltage, and thermocouples. The A/D converter is built-in and maximum sampling frequency is 100 kHz enabling high speed applications.

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

Specifications

Channels	Up to 32 channels (Up to 4 slots)
Analog Input	Provided by optional conditioner cards For the conditioner cards, see page 3-73.
Sampling Frequencies	
Sampling Methods	Synchronous sampling of all channels
Sampling Frequency Series	
	1-2-5 series: 1 Hz to 100 kHz
	2 ⁿ series: 2 Hz to 65536 Hz
Sampling Frequencies (1-2-5 series)	
	1 Hz to 100 kHz for 1-channel measurement
	1 Hz to 50 kHz for 3-channel measurement
	1 Hz to 20 kHz for 8-channel measurement
	1 Hz to 10 kHz for 16-channel measurement
	1 Hz to 5 kHz for 32-channel measurement
Data Storage	CF card (128 MB to 8 GB; 45x speed or faster) Up to 2 GB data for 1 time of measurement
Setting Conditions	Online: From the PC via LAN
Saving Conditions	Amplifier setting conditions and measuring conditions are saved in the internal nonvolatile memory, enabling immediate setup with previous conditions upon power-on.
Measuring Modes	Manual, trigger, or interval
Manual	Data recording is manually started or stopped when data is recorded to a preset number of measure data.
Trigger	Data recording is automatically started when the preset trigger condition is satisfied
Interval	Data recording is periodically made at preset intervals.
Manual Start/Stop of Date Recording	Possible from the PC or by pressing the switch on the front panel of from the dedicated remote control unit
Balance Adjustment	Strain input channels can be balanced from the PC.
Saved Data Format	Kyowa standard format KS2, which is analyzed by the optional Data Analysis Software DAS-200A
Collecting Data	LAN port enables online data transfer to the PC, while CF card enables offline data transfer.
TEDS	Only when using online control from a PC Conditioner cards are CDV-40B (-F), DPM-42B (-F), CCA-40A (-F).
Synchronous Operation	Synchronous cable enables cascade connection of up to 8 units of the MCA-200A. While data is recorded as a separate file in the CF card inserted into each online or offline data transfer to the PC. and combined to one file.
Analog Output	Except for CDV-40B (-F) conditioner cards provide an analog output connector, enabling voltage monitoring ($\pm 5 \text{ V FS}$).
CF Card Slot	1 (For data recording and condition setting)
Communication Ports	LAN
LAN I/F	10BASE-T/100BASE-TX Connector: RJ45 modular jack
Operation Switches	ID: Set ID number of MCA
Indicators	Operation status indicator LEDs: 6 Channel status indicator LEDs: The number of channels provided.
External Control Connectors	CONT IN and CONT OUT (For remote control and synchronous operation)
Operating Temperature	0 to 50°C

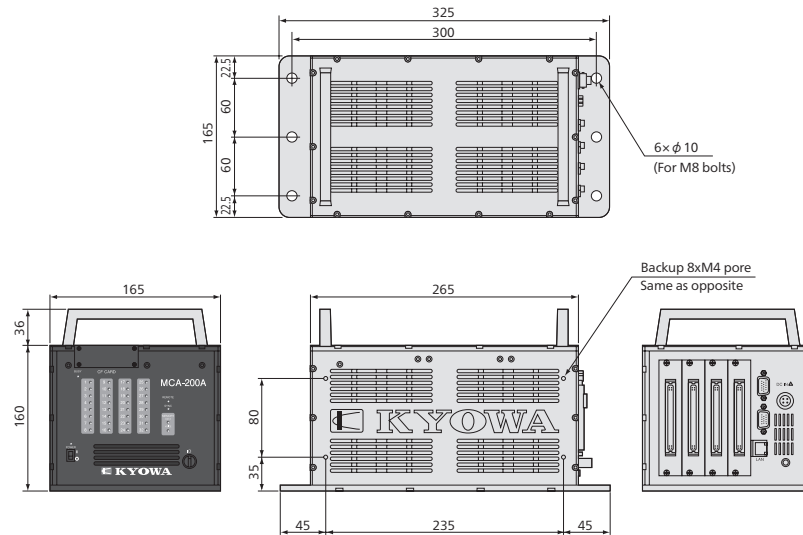
Operating Humidity	20 to 90% RH (Non-condensing)
Storage Temperature	-20 to 60°C
Vibration Resistant	±29.42 m/s ² (3 G), 5 to 55 Hz (When operating) ±49.42 m/s ² (5 G), 5 to 55 Hz (When not operating)
Impact Resistant	196.1 m/s ² (20 G)/11 ms
RoHS Directive	EN50581
EMC Directive	EN61326-1 (Class A)
Power Supply	10 to 18 VDC Connector: RM12BRD -4PH (Hirose) DC power supply or optional dedicated AC adapter is required.

Current Consumption	Approx. 2.8 A (When operated on 12 VDC with 4 CDV-40B cards mounted and full load applied)
Dimensions	165 W x 150 H x 265 D mm (Excluding protrusions)
Weight	Approx. 10 kg (10.5 kg with 4 CDV-40B cards mounted)

Standard Accessories Power cable P-76
Dynamic Data Acquisition Software DCS-100A
CF card

Optional Accessories Synchronous cable N-95 (2 m)
Ac adapter UIA 345-12
Input: 100 to 240 VAC, 1.2 A
Output: 2 VDC, 3.8 A

■ Dimensions



■ System Configuration Charts (Example)

