

# MCA-300A



2  
-36

## Impact Resistant Type Universal Recorder



### G-resistant data logger

- Channels: Max. 32/unit
- Static load resistance: 490.33 m/s<sup>2</sup> (50 G)
- High-speed/low-speed dual sampling allows for measuring of both fast and slow phenomena while keeping data volume low
- Sampling frequency: Max. 100 kHz (1 channel, in dual sampling mode)

This is a data logger that can be mounted on centrifugal force loading monitoring equipment.

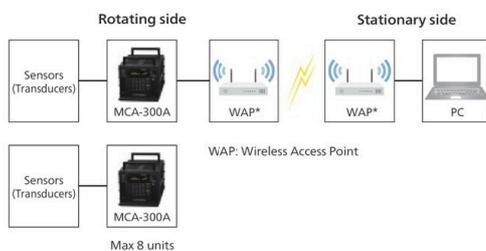
#### Model

Model	Channels (Max.)	Slot
MCA-300A-2H	16	2
MCA-300A-4H	32	4

### To Ensure Proper Usage

When the dual sampling mode is turned ON, you can select from three types in the channel condition settings of the control software: High-speed, Low-speed, and High-speed + Low-speed. Channels set to High-speed + Low-speed are counted as two channels.

#### System Example



#### Specifications

Channels	See table below.
Slot	See table below.
Conditioner Cards for Analog Inputs	Optional conditioner cards Implement with Strain/Voltage card and Thermocouple card installed
Sampling Method	Simultaneously all channels
Sampling Frequencies	Normal-sampling Mode 1/2/5 system 1 Hz to 100 kHz 2 <sup>n</sup> system 2 Hz to 65536 Hz
Dual-sampling Mode	High-speed Sampling [Sf] 1/2/5 system 1 Hz to 100 kHz 2 <sup>n</sup> system 2 Hz to 65536 Hz
	Low-speed Sampling [Ss] 1/2/5 system: Divide the 1/2/5 system of the high-speed sampling, where Ss ≤ Sf/4
Dual-sampling Mode (High-speed + Low-speed setting channel)	1 Hz to 100 kHz (1/2/5 system) : When measuring 1 ch 1 Hz to 50 kHz (1/2/5 system) : When measuring 3 ch 1 Hz to 20 kHz (1/2/5 system) : When measuring 8 ch 1 Hz to 10 kHz (1/2/5 system) : When measuring 16 ch 1 Hz to 5 kHz (1/2/5 system) : : When measuring 32 ch
Data Recording Unit	CF card Capacity: 128 MB to 16 GB (our recommended only)
Indicator	Channel status LEDs: MCA-300A-2H: 16 MCA-300A-4H: 32 MCA-300A status LEDs: 7 MCA-300A status small indicator: 1
External Control Connector	CONT. IN and CONT. OUT (for trigger and synchronous operation)
Communication Interfaces	USB (USB2.0 High Speed) 1 port Connector: Series B receptacle connector LAN (10/100BASE-T) 2 ports LAN IN connector: For PC communication LAN OUT connector: For synchronous operation Connector: RJ45 modular jack connector
Synchronous Operation	Maximum 8 MCA-300A units can be connected for synchronous operation by using synchronous cables N-128. Maximum 8 MCA-300A units can be connected for synchronous operation by using LAN cables.
Saving Conditions	Store the conditioner cards setting conditions and measuring conditions in nonvolatile memory in the MCA-300A.
Vibration Resistance	49.0 m/s <sup>2</sup> (5 G), 5 to 55 Hz 1 cycle 1 min., each axis 15 cycles (when not in operation) 29.4 m/s <sup>2</sup> (3 G), 5 to 55 Hz 1 cycle 1 min., each axis 15 cycles (when in operation)
Impact Resistance	196.1 m/s <sup>2</sup> (20 G)/11 ms
Static Load Resistance	490.33 m/s <sup>2</sup> (50 G)
Power Supply	10 to 36 VDC Connector type: RM12BRD-4PH (HIROSE ELECTRIC CO., LTD.)
Current Consumption	MCA-300A-2H: Approx. 1.6 A (12 VDC with two CDV-40B cards installed) MCA-300A-4H: Approx. 2.6 A (12 VDC with four CDV-40B cards installed)
Outside Dimensions	MCA-300A-2H: 130(W)×150(H)×254.5(D) mm (Excluding protrusions) MCA-300A-4H: 175(W)×150(H)×254.5(D) mm (Excluding protrusions)

\*Specifications and design are subject to change without notice.  
\*Please contact us for information on product warranties.

- Standard Accessories DC power cable P-76  
CF card

- Optional Accessories AC adapter  
MCA-300A-2H: UNI345-1238-AC  
MCA-300A-4H: UNI360-1540-AC  
(If using outside Japan, a separate AC power supply cable will need to be purchased.)

Measuring Instrument



Data Logger

Amplifier

Indicator & Display

Handheld