Rod Type

Cleanroom Type

Splash Proof Type	

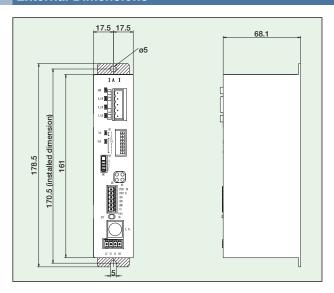
DeviceNet Gateway Unit

■ Model RCM-GW-DV

Operation Modes and Key Functions

Key functions	Position-number specification mode	Positioning-data specification mode	Simple direct/ position-number specification mode
Movement by position data specification	×	0	0
Direct speed & acceleration/deceleration specification	×	0	0
Push-motion operation	0	0	0
Current position read	×	0	0
Position number specification	0	×	0
Completed position number read	0	×	0
Various status signal read	0	0	0
Number of connectable axes	16	16	16
Maximum specifiable position data	Set as position data	999.99	999.99

External Dimensions



Specifications

			0 10			
	Item	Specifications				
Po	wer supply	DC24V ±10%				
Cu	rrent consumption	nt consumption 300mA max.				
Communication		Interface module certified under DeviceNet 2.0				
₹.	standard	Group 2 only server Insulated node operating on network power supply				
ě					wer supply	
DeviceNet specifications	Communication specifications	F		Bit strobe	Bit strobe	
				Polling		
<u>ç</u>				Cyclic		
ica	Baud rate	500k/250k	/125kbps (switch	ned using DIP	switches)	
<u>ĕ</u> .	Communication	Baud rate Maximum network 500kbps 100m		h Maximum branch length	Total branch length	
S	cable length (*1)				39m	
		250kbps	250m	6m	78m	
		125kbps	500m		156m	
		Note) When a large-size DeviceNet cable is used.				
	Number of occupied nodes	1 node				

- *1 If you wish to use T-junction communication, refer to the operation manual for your master unit or PLC used.
 *2 CRC: Cyclic Redundancy Check. A data error detection method widely
- used in synchronous transmission.

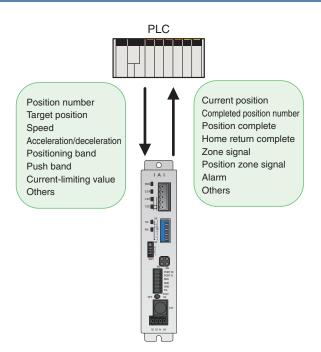
	Item	Specifications		
SIO	Transmission path configuration	IAI's original multi-drop differential communication		
20 00	Communication method	Half-duplex		
mm	Synchronization method	Asynchronous		
uni	Transmission path type	EIA RS485, 2 wires		
cati	Baud rate	230.4kbps		
on s	Error control method	No parity bit, CRC (*2)		
pec	Communication cable length	Total cable length 100m max.		
ific	Number of connected units	Up to 16 axes		
communication specifications	Communication cable	2-pair twisted pair shield cable (Recommended: Taiyo Electric Wire & Cable HK-SB/20276xL 2PxAWG22)		
Em	Ambient operating temperature	0~40°C		
Environmental conditions	Ambient operating humidity	85% RH or below (non-condensing)		
ment	Operating ambience	Free from corrosive dust, flammable gases, oil mist or powder dust		
al co	Storage temperature	−10~65°C		
nditio	Storage humidity	90% RH or below (non-condensing)		
ons	Vibration resistance	4.9m/s ² (0.5G)		
Protection class		IP20		
We	eight	480g or less		

Gateway Unit

The gateway unit is a conversion unit for connecting a ROBO Cylinder controller to a field network such as DeviceNet or CC-Link. Connect a gateway unit to your field network, and link the gateway unit and each controller via serial communication (RS485). Numerical data such as coordinates, speeds, accelerations and current values can be sent and received between the network master (PLC) and controller by means of I/O-level communication.

Features

- Move the actuator by specifying positions from a PLC via network.
- 2. Perform push-motion operation via network.
- Operate the actuator by directly sending the target position, speed, acceleration/deceleration and positioning band as numerical values from a PLC.
- Read the current actuator position and various signals using a PLC.
- 5. Connectable to a maximum of 16 axes.



Functions

One of the following three operation modes can be selected.

(1) Position-number specification mode

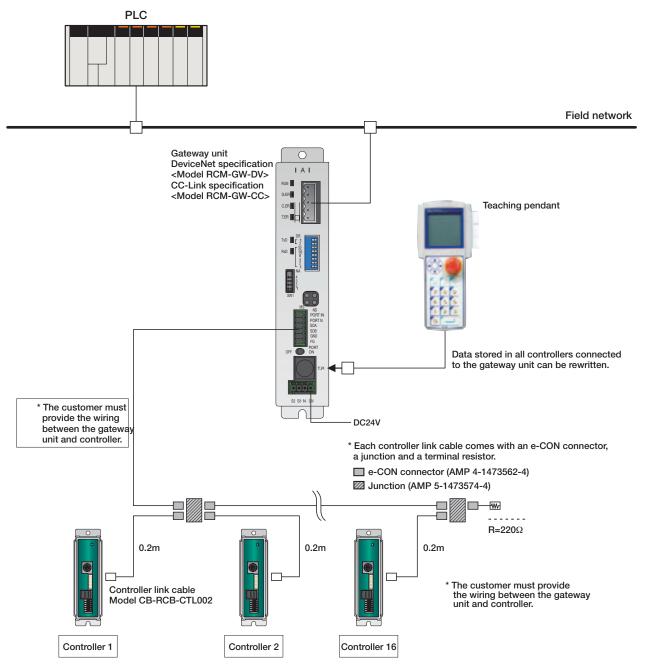
Input target positions, speeds, accelerations/decelerations, positioning bands and other settings to the controller in advance as position data, and specify a desired position number via network, just like you do with PIO signals, to move the actuator. A maximum of 64 positioning points can be set. Various status signals can be read using a PLC.

(2) Positioning-data specification mode

Specify a desired target position, speed, acceleration/deceleration, positioning band, push band, current-limiting value, etc., directly as numerical values to move the actuator or cause it to perform push-motion operation. Various status signals can be input/output and current position data read using a PLC.

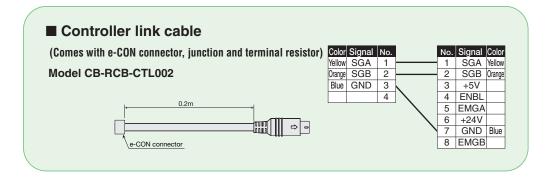
(3) Simple direct/position-number specification mode

Call desired position data except for a target position (by specifying an applicable position number), and specify only a target position as a numerical value, to move the actuator. A maximum of 512 positioning points can be set.



Connectable Controllers ERC2 / PCON / ACON / SCON (*1)

(*1) SCON will communicate at the I/O level when connected to the field network even if the gateway unit is not used. It is necessary to use the gateway unit when communicating positional data.



Controller -Integrated Type

Slider Type

Rod Type

> ۱۳m / Flat Type

Gripper / Rotary Type

Cleanroon Type

Splast Proof Typ

ash Type Con

Controller

Gateway unit

PS-24

FRCS

CON

ACON

SCON

PSE

ASEL

SSEL

XSEL