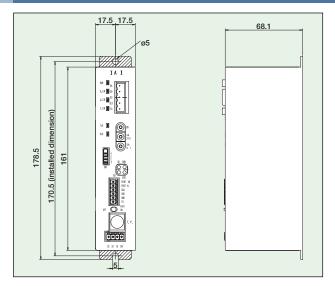
# **CC-Link Gateway Unit**

## **■** Model RCM-GW-CC

## **Operation Modes and Key Functions**

Key functions	Position-number specification	Position-data only specification	Positioning-data s	Simple direct/ position-number		
Rey functions	mode	mode	Normal positioning mode	Push-motion operation mode	specification mode	
Movement by position data specification	×	0	0	0	0	
Direct speed & acceleration/deceleration specification	×	×	0	0	0	
Push-motion operation	0	×	×	0	0	
Current position read	×	0	0	0	0	
Position number specification	0	×	×	×	0	
Completed position number read	0	×	×	×	0	
Various status signal read	0	0	0	0	0	
Number of connectable axes	14	14	7	3	16	
Maximum specifiable position data	Set as position data	327.67	327.67	999.99	999.99	

### **External Dimensions**



### **Specifications**

Item		Specifications						
Power supply		DC24V ±10%						
Current consumption		300mA max.						
ဂ္ဂ	Communication standard	CC-Link Ver1.10(*1)						
浧	Baud rate	10M/5M/2.5M/625k/156kbps (switched using a rotary switch)						
CC-Link specifications	Communication method	Broadcast polling method						
sp	Synchronization method	Frame synchronization method						
<u>ec</u>	Encoding method	NRZI						
Ę	Transmission path type	Bus type (conforming to EIA RS485)						
計	Transmission format	Conforming to HDLC						
ns	Error control method	CRC(X <sup>16</sup> +X <sup>12</sup> +X <sup>5</sup> +1)						
	Number of occupied stations	Total cable length						
	Communication cable length (*2)	Baud rate (bps)	10M	5M	2.5M	625k	156k	
		Total cable length(m)	100	160	400	900	1200	
	Communication cable	CC-Link cable						

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

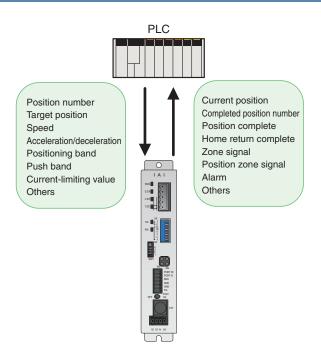
Item		Specifications			
SIO	Transmission path configuration	IAI's original multi-drop differential communication			
O communication specifications	Communication method	Half-duplex			
	Synchronization method	Asynchronous			
	Transmission path type	EIA RS485, 2 wires			
	Baud rate	230.4kbps			
	Error control method	No parity bit, CRC (*2)			
	Communication cable length	Total cable length 100m max.			
	Number of connected units	Up to 3/7/14/16 axes (The exact number varies depending on the operation of			
	Communication cable	2-pair twisted pair shield cable (Recommended: Taiyo Electric Wire & Cable HK-SB/20276xL 2PxAWG22)			
Ē	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			
nditi	Storage humidity	90% RH or below (non-condensing)			
ons	Vibration resistance	4.9m/s <sup>2</sup> (0.5G)			
Pr	otection 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

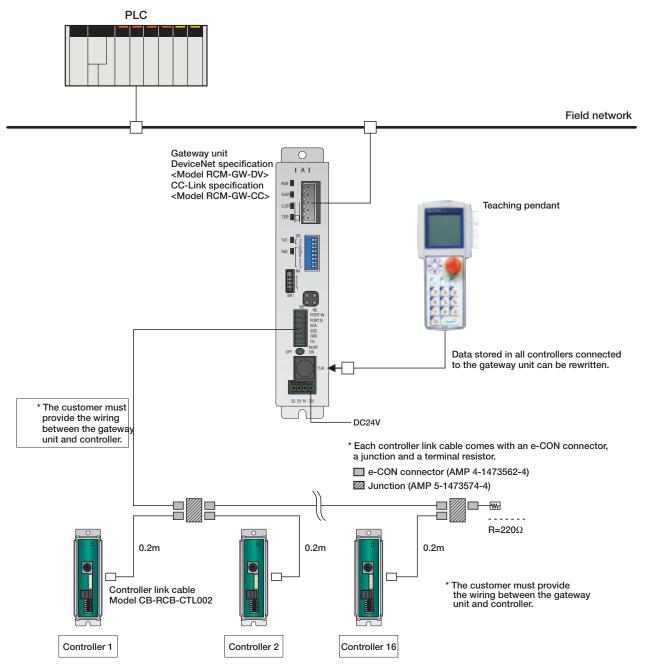
Input target positions, speeds, accelerations/decelerations, positioning bands and other settings to the controller in advance as position data, and specify a desired position number via network, just like you do with PIO signals, to move the actuator. A maximum of 64 positioning points can be set. Various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

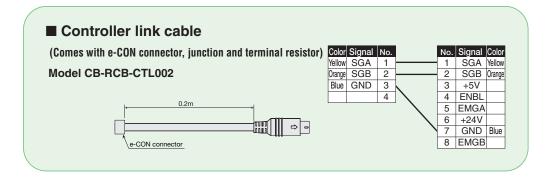
# (3) Simple direct/position-number specification mode

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