ROBO NET

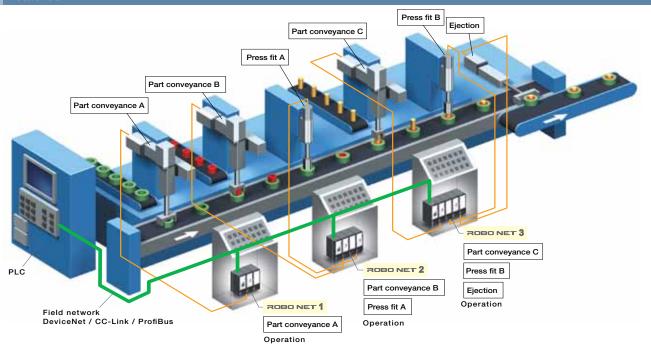
■ Model :RGW-□/RACON/RPCON/RABU/REXT

For RCA2/RCA/RCL/RCP3/RCP2 **Network Controller**



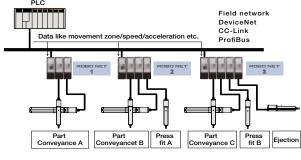
ROBONET is a new type of control unit that freely operates ROBO Cylinders via a field network. They have less wiring and are more compact than past controllers, and by DIN rail mounting make it possible to vastly reduce wiring and installation labor.

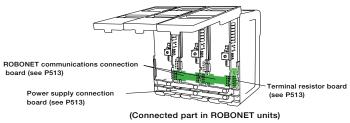
Features



Reduced Wiring

By connecting each line of the I/O cables to lines wired to the PLC terminals with the field network, wiring processing is completed with one dedicated cable. Also, since the unit can be coupled by just connecting with the unit connection board, the controller wiring work is greatly simplified.





7

The robot can be moved by directly specifying numeric values for the move position/velocity/acceleration and other data.

Besides the conventional method of moving the robot to pre-taught positions it is also possible to operate the robot by sending information as a string of numeric data that contains position, velocity, acceleration, etc. values. This is effective for cases such as when the move position changes with each piece or when one wants to move the robot to an arbitrary position.

	ROBONET controller	Standard controller (ACON/PCON)
Movement by specifying positions	0	0
Movement by specifying direct values	0	Λ
Specifying speed/acceleration	0	(Not for PIO)
Current value output	0	(Connectable with serial communication)

*ROBONET operates through a field network, and the standard controller operates with PIO.

3

Ultra-compact

Each unit is an ultra-compact size of 34mm wide by 100mm high x 73mm deep. Also, since there is no base unit and the main unit is coupled with connectors, the controller takes up little space for installation even if there are many units.



4

Can operate with a maximum of 16 axes.

Up to 16 controllers can be connected to one communication unit (Gateway R unit).

RACON units (controllers for RCA) and RPCON units (controllers for RCP2) can also be used together.

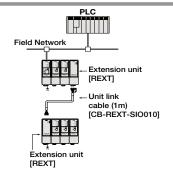


5

Controllers can be multiplexed.

Controllers can be multiplexed using an optional extension unit, so many axes can be connected even if there isn't much horizontal space.

Also, non-ROBONET controllers (SCON, PCON-CF, ERC2) can be connected to a ROBONET Gateway unit using the same extension unit.



6

Simple absolute unit, when home return is not required

The simple absolute R unit allows operation for incremental specification axes without home return. Users can back up actuator encoder data even if the power is shut off, by installing a simple absolute R unit to a RACON unit (controller for RCA) or RPCON unit (controller for RCP2).



7

Mounting the DIN rail

The controller is installed with DIN rails, so it can be fastened and removed with one touch.

Mini

Controlle

Rod Type

Mini

Controllers Integrated

Table/Arm /Flat Type

Mini

Standard

Linear Serv

Cleanroom Type

Туро

PMEC

PSEP /ASEP

NET

PCON

SCON

1011

SSEL

XSEL

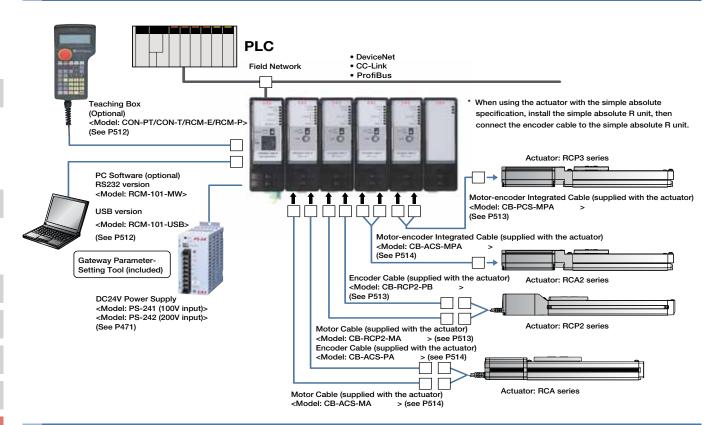
Pulse Mot

Servo Mo

Servo Mot

Linear Servo Mo

System configuration



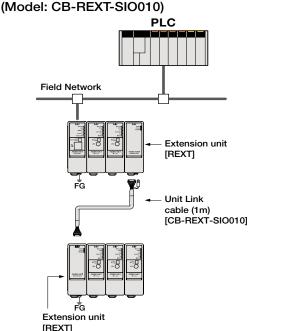
ROBONET Extension Unit

If multiple ROBONET extension units (optional) are linked together they can reduce the lateral width needed. It is also possible to connect individual controllers, such as SCON, etc. via the ROBONET.

[Unit Multiplex Set]

Model: REXT-SIO

(Set Contents)
ROBONET Extension Unit (Model: REXT) 2 pc
Unit Link Cable 1 pc



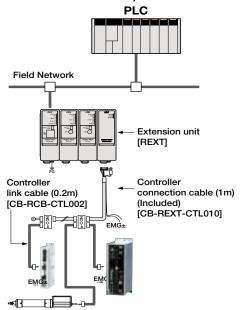
[Controller Connecting Set]

Model: REXT-CTL

(Set Contents)

ROBONET Extension Unit (Model: REXT) 1 pc Controller Connection Cable 1 pc

(Model: CB-REXT-CTL010)



505 ROBONET

Configuration unit

Required ROBONET units are ordered individually, and assembled as you see fit. If actuators are added later, they can be easily added simply by adding a RACON/RPCON unit.

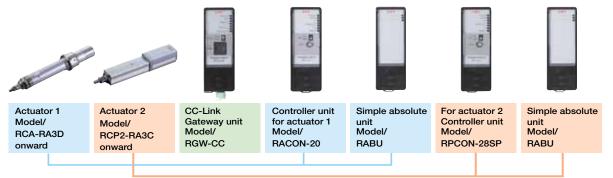


Unit Name	Description				
Gateway R unit	This unit is for connecting to a field network. Users can select from 4 types: DeviceNet, CC-Link, ProfiBus, and SIO. *This unit is required for using ROBONET.	P508 P509			
RACON unit	This controller operates the RCA actuator. (One unit is necessary per actuator axis.) The incremental specification is the standard, but the simple absolute specification can also be used if the simple absolute R unit is used with it.	P510			
RPCON unit	This controller operates the RCP2 actuator. (One unit is necessary per actuator axis.) The incremental specification is the standard, but the simple absolute specification can also be used if the simple absolute R unit is used with it.	P510			
Simple absolute R unit when the power is turned off.		P511			
Extension unit	This unit makes it possible to reverse ROBONET connections, connect unit controllers (SCON/PCON-CF) to ROBONET, and conduct operation from a network.	P511			

Ordering Method/Precautions

Required ROBONET units are ordered individually and assembled by the customer. Consequently, they can be added to or changed later.

<Ordering example> The following 2 actuator axes can be operated through CC-Link.
The models that would be best operated with the absolute specification are as follows.



Gateway Parameter Setting Tool A gateway parameter setting tool is necessary to set up the network when ROBONET is connected to a field network. This tool can be acquired at no cost.

- (1) Download from the IAI website, or
- (2) Acquire PC compatible software (included on CD).

A cable (cable included with PC software, model: CB-RCA-SIO050+RCB-CV-MW) is required to connect the PC to the controller when using the gateway parameter setting tool. If you do not have the PC software, please purchase a cable.

■ PC Compatible Software Teaching Pendant Compatible PC software or a teaching pendant is required to enter position data, etc. to a ROBONET controller unit. ROBONET compatible PC software (Model: RCM-101-MW/USB) version is Ver. 6.00.04.00 or later. Teaching pendant compatible models and versions include: RCM-T and Ver. 2.06 and later, model: RCM-E/RCM-P and Ver. 2.08 and later. Model: CON-T is compatible with all versions from the earliest version. Consult with our Sales Division if the version your equipment has needs to be updated.

Slider

MIIII

Controlle Integrate

Rod Type

Mini

Controllers Integrated

/Flat Type

Standard

Gripper/

Linear Serv Type

Cleanroom Type

Splash-Prod

Controllers

PSEP /ASEP

NET

PCON

SCON

AOE

SSEL

XSEL

Pulse Moto

Servo Mot

Servo Moto (200V)

Servo Mo

Operation Mode

ROBONET operates upon receiving commands from the PLC via the field network.

The following four operating modes are available. Select the most suitable mode for the operation or the control method.

	Name	Description
1	Positioner mode (1,2)	In this mode, operation is done by specifying position numbers, whose position data, speed, and acceleration have been entered to the position table in advance. A maximum of 768 position points can be saved.
2	Simple direct input mode	The position data is specified directly using a numerical value; the other settings, such as speed, acceleration, deceleration, positioning band, and pushing current limit are specified using a predefined position number. A maximum of 768 position points can be saved.
3	The position data, speed, acceleration, deceleration, positioning band, and pushing current limit are all specified directly using numerical values. Since the settings are specified by their numerical values, there is no limit to the number of points that can be set.	
4	Solenoid valve mode (1,2)	The number of positioning points is limited for a simpler operation. You can operate it using the same controls as a solenoid valve, just by sending a command with the target position number (start signal not required).

List of functions for operation modes

Operation mode Item		Positioner 1 Mode	Simple immediate data Mode	Direct number designation mode	Positioner 2 Mode	Solenoid Valve Solenoid Va Mode 1 Mode 2	
Each axis fi	eld (both input and output)	4 w	4 words		2 words	2 w	ords
Fixed field (Fixed field (both input and output)		8 words (Command field usable)		8 words (Command field usable)	and field (Command field us	
Number of	set positions	768 positions/axis	768 positions/axis	-	768 positions/axis	7 positions/axis	3 positions/axis
Position No	designation operation	0	0	×	0	(
Position da	ta direct designation	×	0	0	×	;	<
Direct desig	nation of speed and acceleration/deceleration speed	×	×	0	×	;	<
Direct desig	gnation of positioning band	×	×	0	×	;	<
Pushing op	eration	0	0	0	0	(
Completed	position No. monitor	0	0	×	0	(
Zone outpu	t monitor	0	0	0	0	(
Position zor	ne output monitor	0	0	×	0	(
Teaching fu	nction	0	×	×	0	;	•
Jog operati	on	0	0	0	0	3	•
Incrementa	I operation	0	0	0	0	;	•
Status sign	al monitor (*1)	0	0	0	0	3	•
Current pos	sition monitor (*1)	0	0	0	0	;	<
Alarm code	monitor (*1)	0	0	0	0	:	<
Speed and	current monitor (*1)	×	×	0	×	;	•
Each axis m	nonitoring function in ode (*2)	0	0	0	0	(
	Hand shake	0	0	×	0	(
Command	Position table Reading/writing of data	0	0	×	0	()
	Reading the current position	×	×	×	×	;	<
	Broadcast	0	×	×	0	(
Max. value for position data designation		9999.99mm (When command is used)	9999.99mm	9999.99mm	9999.99mm (When command is used)		99mm nand is used)
Number of	axes that can be connected	16	16	8	16	1	6

^{1:} Each status signal monitor, current position monitor, alarm code monitor, and speed/current monitor can be viewed by accessing to each address of Gateway unit via PLC.

507 ROBO

Slide Type Mini

Controllers Integrated

> Rod Type

Standard Controllers

Table/Arm /Flat Type

Standard

Rotary Type Linear Servo

Cleanroom Type

Splash-Proof

Controllers

PSEP /ASEP

NET ERC2

PCON

SCON

AOE

SSEL

, TOL

Pulse Moto

Servo Motor (24V)

Servo Moto (200V

Linea ervo Moto

^{*2:} Traditionally, monitoring each axis in AUTO mode is unavailable. However, monitoring each axis with Mode switch at "AUTO" is available with ROBONET by connecting the special touch panel to the TP connector.

^{*3:} Independent acceleration and deceleration settings are not available. The setting applies to both accelerating and decelerating speeds.

Gateway R Unit for DeviceNet



A communications unit to operate ROBONET via DeviceNet.

Model RGW-DV

Specifications

ns		Item	Spec	eifications		Item	Specifications			
	Ро	wer	DC24V ±10%		suc		Comm. Speed	Max. network length	Max. branch length	Total branch length
		rrent nsumption	600mA max.			Comm.	500kbps	100m		39m
	S		DeviceNet 2.0-cer	tified interface module	Specifications	cable length (*1)	250kbps	250m	6m	78m
	cifications	Comm. Standard	Group 2 only serve	er	Net S		125kbps	500m		156m
	cifica	Staridard	Insulated node operating on network power supply				Note: When using a large cable for DeviceNet			
	Spe	Comm. Spec.		Bit strobe	Device	No. occupied nodes	1 node			
	eNet		Master-slave connection	Polling	ints	Ambient op. temperature	0~40°C			
	DeviceNet		Cyclic Cyclic	Environment Requirements	Ambient op. humidity	95% RH or	below (non-co	ondensing)		
	_	Comm. Speed	500k/250k/125kbps (switchable by software)			Ambient op.	No corrosive or flammable gasses, oil mist, or dust.			
*				e T-junction communication, see the ual for your master unit or PLC.		otection class	IP20			
			•		We	eight	140g			

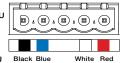
Accessories

Network cable

Connector on Gateway Side MSTBA2.5/5-G-5.08 ABGY AU (Made by: Phoenix Contact)

Connector on Cable Side
MSTB2.5/5-ST-5.08 ABGY AU
(Made by: Phoenix Contact)

= Standard accessory



Pin Color	Description
Black	Power cable negative (-) side
Blue	Comm. data Low side
-	Shield
White	Comm. data High side
Red	Power cable plus (+) side

Cable connector-compatible wiring

	Item	Description				
	Wire diameter	Twisted wire: AWG24-12 (0.2~2.5mm²)				
	Stripped wire length	7mm				

Gateway R Unit for CC-Link



A communications unit to operate ROBONET via CC-Link.

Model RGW-CC

Specifications

3	Item	Specifications		Item	Specifications						
Po	wer Supply	DC24V ±10%	ons	Error Control Method	CRC (X16+X12+X5+1)						
Cu	rrent consumption	600mA max.		Station occupancy		e stations: x1, 4 st.; x4, 2 st.; x8				×8, 2 st	
	Comm. Standard	CC-Link Ver2.0 (*1)	Spec	Comm. Cable	Comm. Speed (bps)	10M	5M	2.5M	625k	156k	
suo	Comm. Speed	10M/5M/2.5M/625k/156kbps (switchable by software)	į	Length (*2)	Total Cable Length (m)	100	160	400	900	1200	
ficati	Comm. Method	Broadcast polling method	8	Comm. Cable	Dedicated CC-Link cable						
Speci	Sync. Method	Frame synchronization method	ints	Ambient op. temperature	0~40°C						
CC-Link Specifications	Encoding Method	NRZI	ronment	Ambient op. humidity	95% RH or below (non-condensing)						
8	Transf. Type	Bus format (EIA RS485 compliant)		Ambient op. environment	No corrosive or flammable gasses, oil mist, or dust.						
	Transf. Format	HDLC compliant	Protection class								
	*1 Certification acquired			eight	140g						
		nction communication, see the your master unit or PLC.	Ac	cessories	Terminal resistor board (model TN-1) Network connector, Emergency stop connector Terminal resistor cable (110Ω/130Ω)						

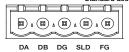
Network cable

Connector on Gateway Side:

MSTBA2.5/5-G-5.08AU

(Made by Phoenix Contact)

(Made by Phoenix Contact) = Standard accessory



Signal Name	Description
DA	Communication line A
DB	Communication line B
DG	Ground
SLD	The shield and cable's shield are connected, then they are connected to "FG"and the chassis.
FG	Frame ground Connected to "SLD" and the chassis.

IAI

Cable connector-compatible wiring

Item	Description
Wire diameter	Twisted wire: AWG24-12 (0.2~2.5mm²)
Stripped wire length	7mm

ROBONET

Slider Type

Controlle Integrate

> Rod Type

Mini

Controller Integrated

Table/Arm /Flat Type

Standard

Gripper/ Rotary Type

Type

Cleanroom Type

Splash-Proo

Controllers

/AMEC

NET

PCON

SCON

PSEL

SSFL

XSEL

Pulsa Moto

Servo Mot

Servo Mot (200V)

Linear Servo M

Configuration unit (Gateway R unit)

Gateway R Unit for ProfiBus



A communications unit to operate ROBONET via ProfiBus.

Model RGW-PR

Specifications

	Item	Specifications			Item	Specifications	
F	Power Supply	DC24V ±10%			Ambient op. temperature	0~40°C	
	Current Consumption	600mA max.		Environment Requirements	Ambient op. humidity	95% RH or below (non-condensing)	
	Comm. Standard	DP slave		Regu	Ambient op. environment	No corrosive or flammable gases, oil mist, or dust.	
i	Comm. Speed	9.6kbps~12Mbps			otection class	IP20	
i,		9.6kbps	1500m	W	eight	140g	
Specifications	la	500kbps	400m	Accessories		Terminal resistor board (model TN-1) Emergency stop connector	
S.		1.5Mbps	200m			0 , .	
ProfiBus		3Mbps	200m				
"	·[12Mbps	100m				

Network cable

Connector on Gateway Side: D-Sub connector, 9-pin socket side



Pin No. Signal Name Description Pin No. Signal Name Description Communication line B (RS485) 6 +5V +5V output (insulated) Communication line A (RS485) 4 RTS Request send A-Line Connected to the cable's shield and the chassis. Signal ground (insulated) Housing Shield

* The matching connector (D-Sub 9-pin connector) is not included. * Pins 1, 2, 7, and 9 are not connected

Gateway R Unit for SIO



A communications unit for operating ROBONET from an XSEL controller or a Modbuscompatible communications unit, via serial communication.

Model RGW-SIO

Specifications

3	Item	Specifications		Item	Specifications
	Power Supply	DC24V ±10%	nt nts	Ambient op. temperature	0~40°C
, v.	Current consumption	600mA max.	ironment irements	Ambient op. humidity	95% RH or below (non-condensing)
Specifications	Comm. Type	RS485-compliant (Modbus protocol) 1:1 communication connection	iviro quire	Ambient op. environment	No corrosive or flammable gases, oil mist, or dust.
ecific	Comm. Method	Asynchronous method, half-duplex	Env Regu	Protection class	IP20
SIOS	Comm. Speed	230.4kbps max.	We	ight	140g
\ s	Cable Length	100m or less	Accessories		Terminal resistor board (model TN-1) Network connector, Emergency stop connector
	Recommended cable	2 pairs of twisted pair cables (shielded)			

Network cable

Connector on Gateway Side MC1.5/4-G-3.5 (Made by Phoenix Contact)



Connector on Cable Side: MC1.5/4-ST-3.5 (Made by Phoenix Contact) = Standard accessory

8	B	(B)	8
FG	sg	SB	SA

Signal Name	Description					
SA	Communication line A (+positive side) Built-in RS485-comp					
SB	Communication line B (-negative side)	terminal resistor (220Ω)				
SG	Signal ground					
FG	Frame ground connected to the chassis.					

Cable connector-compatible wiring

Item	Description			
Wire diameter	Twisted wire: AWG28-16 (0.14~1.5mm²)			
Stripped wire length	7mm			

Configuration unit (Controller unit)

RACON unit Controller for RCA2/RCA series



Controller unit that is used for RCA2/RCA actuator operation with ROBONET.

Model RACON-(1)(2)-(3)

- * In Model ①, input a motor power output. (See the following table.)
 - ② will need the code "HA" or "LA" specified when a high acceleration/deceleration or power saving actuator is to be used. (Otherwise, leave it blank.)
 - (3) input "ABU" only when a simple absolute unit is used. (Otherwise, leave it blank.)

Model	Compatible actuators					
RACON-22-3	RCL-SA1L / SA4L / SM4L / RA1L					
RACON-52-3	RCL-SA2L / SA5L / SM5L / RA2L					
RACON-102-3	RCA2-SA3C / RN3N / RP3N / GS3N / GD3N / SD3N / TC3N / TW3N / TF3N / TA4					
RACON-202-3	RCA-SA4 /SS4 /SA5 /SS5 /RA4 -20/RG 4 -20/A4R/A5R RCACR-SA4C/SA5 RCAW-RA4 -20 RCA2-SA4 /SA5 /TA6					
RACON-20S2-3	RCA-RA3 / RG 3 RCAW-RA3 RCA2-SA4 / TA5					
RACON-302-3	RCA-SA6 / SS6 / RA4 -30 / RG 4 -30 / A6R RCACR-SA6 RCAW-RA4 -30 RCA2-SA6C / TA7C					

Specifications

	Item	Specifications		Item	Specifications
	Power Supply	DC24V ±10%	nt nts	Ambient op. temperature	0~50°C
us	Power Supply Capacity	5.1A max. (depends on the actuator)	nme	Ambient op. humidity	95% RH or below (non-condensing)
ation	Operable Actuators	RCA series	Environment Requirements	Ambient op. environment	No corrosive or flammable gases, oil mist, or dust.
ij.	Positioning Points	768 points	교윤	Protection class	IP20
Speci	Backup memory	EEPROM		ight	200g
	Position Detection Method	Incremental encoder	Ac	cessories	ROBONET connection board (model JB-1),
eneral	Solenoid brake force-release	Brake release switch			Power connection board (model PP-1)
G	Motor Cable	Model: CB-ACS-MA			
	Encoder Cable	Model: CB-ACS-PA			

RPCON unit Controller for RCP3/RCP2 series



Controller unit that is used for RCP3/RCP2 actuator operation with ROBONET.

Model RPCON-1-2-3

- * In Model ①, input a motor type. (See the following table.)
 - 2 input "ABU" only when a simple absolute unit is used. (Otherwise, leave it blank.)
 - ③ should have the code "H" when an RCP3-SA4, SA5, SA6, or an RCP2(RCP2CR)-SA5 or SA6 is to be connected.

Model	Compatible actuators				
RPCON-20P-②	RCP2-RA2C / GRSS / GRLS / GRS RCP3-SA2A / SA2B / RA2A / RA2B				
RPCON-28P-2	RCP2-GRM / GR3LS / GR3SS / RTB / RTC / RTBL / RTCL RCP3-SA3C				
RPCON-28SP-2	RCP2-RA3C / RGD3C				
RPCON-35P-2-3	RCP3-SA4 / TA5				
RPCON-42P-23	RCP2-SA5 / SA6 / SS7 / BA6 / BA7 / RA4C / RG 4C /GR3LM / GR3SM RCP3-SA5 / SA6 / TA6 / TA7 RCP2CR-SA5C / SA6C / SS7C RCP2W-RA4C				
RPCON-56P-2	RCP2-SA7 / SS8 / RA6C / RG 6C / RCP2CR-SA7C / SS8C RCP2W-RA6C				

Specifications

	Item	Specifications		Item	Specifications
	Power Supply	DC24V ±10%	nt Its	Ambient op. temperature	0~50°C
.	Power Supply Capacity	2A max.	Environment Requirements	Ambient op. humidity	95% RH or below (non-condensing)
ations	Operable Actuators	RCP2 series	nviro	Ambient op. environment	No corrosive or flammable gases, oil mist, or dust.
ifica	Positioning Points	768 points	E. Re	Protection class	IP20
Specific	Backup memory	EEPROM	Weight		200g
75	Position Detection Method	Incremental encoder	Accessories		ROBONET connection board (model JB-1),
Gene	Solenoid brake force-release	Brake release switch			Power connection board (model PP-1)
	Motor Cable	Model: CB-RCP2-MA			
	Encoder Cable	Model: CR-RCP2-PR			

Configuration unit (Simple absolute R unit/Extension unit)

Simple absolute R unit



A data backup battery unit that can be attached to an RACON or RPCON controller to use an incremental actuator as an absolute type.

*1 One unit of the simple absolute R unit is required per RACON/RPCON unit.

Model RABU (for RACON and RPCON)

* When preparing a simple absolute R unit together with a controller unit (RACON/RPCON), write down "-ABU" to the end of the controller model, of which the simple absolute unit is installed.

Specifications

	Item	Specifications			Item		Specifications	
	Power Supply	DC24V ±10%					Ambient op.	0~40°C
ક	Current consumption	300mA max.				nvironme	Ambient op. humidity	95% RH or below (non-condensing)
Specifications	Battery used	300mA max. Ni-MH battery, nickel-hydrogen cell battery Approx. 78 hours 3 yrs					Ambient op. environment	No corrosive or flammable gases, oil mist, or dust.
ecific	Charging time	Approx. 78 hours					Protection class	IP20
Sp	Battery life	3 yrs				W	eight	330g
General	Maximum rpm for absolute data retention	800	400	200	100	Ac	cessories	ROBONET connection board (model JB-1)
	Absolute Data Retention Duration (h)	120	240	360	480	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		simple absolute connection board (model JB-1) power connection board (model PP-1)

Extension Unit



When too many ROBONET units are connected horizontally to fit into the controller board, use this unit to split them in the middle with a cable to create another row.

In addition, by attaching the extension unit to the end of the linked ROBONET units and using an external controller cable, you can operate a standalone controller SCON like any other ROBONET controller, over the network.

Model REXT (for RPCON and RACON)

Specifications

	Item	Specifications	
eral	Power Supply	DC24V ±10%	
General Specifications	Current consumption	100mA max.	
nts	Ambient op. temperature	0~40°C	
ae a	Ambient op. humidity	95% RH or below (non-condensing)	
Environment Requirements	Ambient op. environment	No corrosive or flammable gases, oil mist, or dust.	
문원	Protection class	IP20	
Wei	ght	140g	
Acc	essories	ROBONET connection board (model JB-1), Power connection board (model PP-1)	

(Note) The cable used is different depending on whether you are creating a new row of linked units, or connecting a standalone controller.

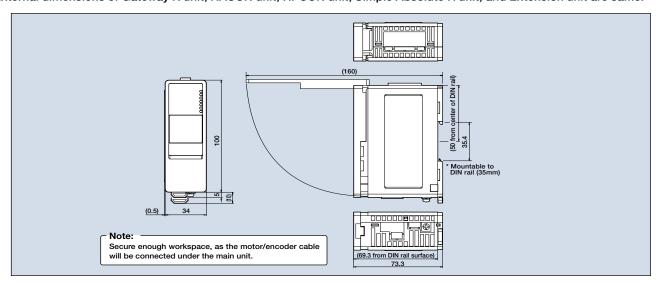
For more information, see the ROBONET extension unit on P505.

Linear rvo Motor

511 ROBONE

External dimensional drawing

External dimensions of Gateway R unit, RACON unit, RPCON unit, Simple Absolute R unit, and Extension unit are same.



Option

Teaching Pendant

Features A teaching device with functions for inputting positions, performing test runs, and monitoring.

■ Model CON-PT-M (Touch panel teaching pendant)

CON-T (Standard type)

RCM-E (Simple teaching pendant)

Note:

The version of RCM-E that can be used with ROBONET is 2.08 or later.

■ CON-T Options

Wall-mounting hook
 Model HK-1

PC Software (CD)

• Strap



CB-SEL-USB030

CON-PT-M CON-T RCM-E 132 110.0 110

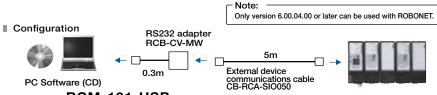
Specifications

opecinications						
Item	CON-PT-M	CON-T	RCM-E			
Data Input	0	0	0			
Actuator motion	0	0	0			
Ambient Operating Temp./Humidity	Temp: 0~40°C; Humidity: 85% RH or below					
Ambient Operating Atmosphere	No corrosive gases. Especially no dust.					
Protection class	IP40	IP54	-			
Weight	Approx. 750g	Approx. 400g	Approx. 400g			
Cable Length		5m				
Display	3-color LED touch panel with backlight	20 char. × 4 lines LCD display	16 char. × 2 lines LCD display			
Standard Price	_	-	_			

PC Software (Windows Only)

Features A startup support software for inputting positions, performing test runs, and monitoring. With enhancements for adjustment functions, the startup time is shortened.

■ Model RCM-101-MW (with external device communications cable + RS232 conversion unit)



■ Model RCM-101-USB (with external device communications cable + USB adapter + USB cable)

Note:
Only version 6.00.04.00 or later can be used with ROBONET.

USB adapter
RCB-CV-USB

Sm
USB cable
External device

IAI

communications cable CB-RCA-SIO050





Slider

Mini

Controlle

Rod Type

Mini

Controllers Integrated

Table/Arm

Crinnar/

Linear Serv Type

Cleanroom Type

Туре

Splash-Prod

PMEC /AMEC

/ASEP

ERC2

ACON

SCON

SSEL

Pulse Moto

Servo Moto (24V)

Servo Mot (200V)

Linear Servo Mo

Option

DC24V Power Supply

Features

A 24V power supply for ROBO Cylinder that can output 17A of momentary current. Power supply units can be operated in parallel, and up to 5 units can be added if a unit runs out of capacity.

Model

PS-241

(100V input model)

PS-242

(200V input model)

Actuator vs. Power Supply Current

		Power Supply		No. of connectible units for each unit of PS-24		
Controller type	Actuator type			Simultaneous servo ON for all axes*	No simultaneous servo ON for all axes*	
RPCON PCON	RCP2, all models (note)	Rated (= Maximum) 2		8	8	
	SA4, SA5 (20W)	Rated	1.3	3	6	
		Maximum	4.4	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `		
	SA6 (30W)	Rated	1.3	4	6	
		Maximum	4	1 4		
RACON	RA3 (20W)	Rated	1.7		5	
ACON		Maximum	5.1	3		
		Rated	1.3	3		
		Maximum	4.4	1 3	6	
	RA4 (30W)	Rated	1.3			
		Maximum	4	4	6	



* Refers to the first servo ON after power-up.
(Note) Excluding HS8C, HS8R, and RA10C
* For PSEL/ASEL, this is different depending on the number of axes and model.

Please inquire for details.

Spare parts

When spare parts are necessary after purchasing the product, such as when replacing a cable, refer to a list of the models below.



ROBONET connection board (simple absolute connection board) Model JB-1



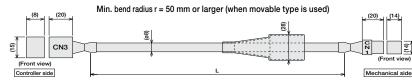
Terminal resistor board Model TN-1

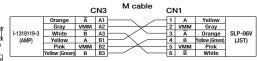


Power connection board Model PP-1

Motor cable for RCP2

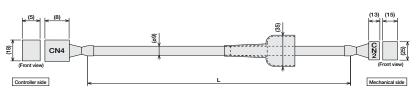
* The standard cable for the motor cable is the robot cable. Selection is available CB-RCP2-MA Model * Enter the cable length (L) into \square . Compatible to maximum of 20 meters. Ex.: 080 = 8m

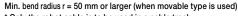




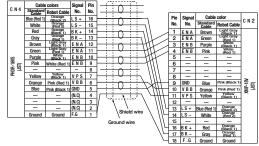
Encoder Cable/Encoder Robot Cable for RCP2

*The standard encoder cable is the normal cable. The robot cable is selectable as an option.
* Enter the cable length (L) into \(\subseteq \subseteq \). Compatible to maximum of 20 meters. Ex.: 080 = 8m **CB-RCP2-PB** /CB-RCP2-PB



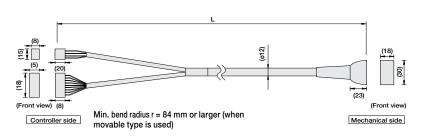


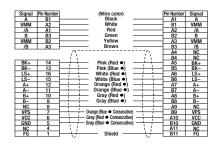
* Only the robot cable is to be used in a cable track.



Motor-encoder integrated type cable for RCP3/RCP2 (Limited to RCP2-GRSS/GRLS/GRST/SRA4R/SRGS4R/SRGD4R types)

Enter the cable length (L) into □□□ . Compatible to a maximum of 20 meters. Ex.: 080 = 8 m CB-PCS-MPA Model





Mechanical side

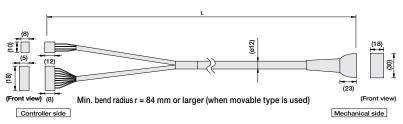
Housing: PHDR-18VR (JST) Contact : SPHD-001T-P0.5 (JST)

Motor-Encoder Integrated Cable for RCA2

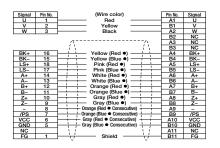
Model CB-ACS-MPA

Controller side

* Enter the cable length (L) into $\Box\Box\Box$. Compatible to a maximum of 20 meters.

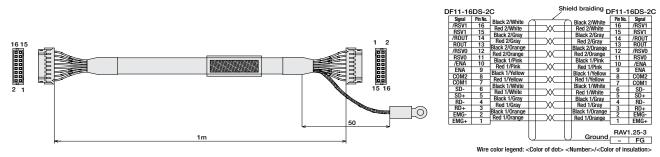


Min. bend radius r = 50 mm or larger (when movable type is used) * Only the robot cable is to be used in a cable track.



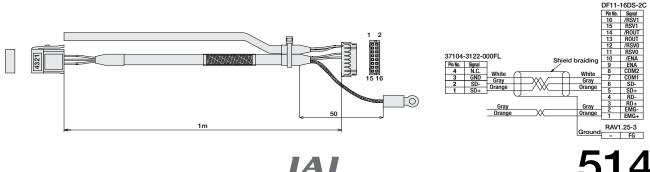
Unit Link Cable for Extension Unit

Model CB-REXT-SIO010



Controller Connection Cable for Extension Unit

Model CB-REXT-CTL010



ROBONET