


Product Overview


DeviceNet Digital Remote I/O, Standard Terminal Block Type

Model	Basic unit	ARD-DI08A	ARD-DI16N	ARD-DI16P	ARD-DO08R	ARD-DO08S	ARD-DO16N	ARD-DO16P	ARD-DX16N	ARD-DX16P
	Expansion unit	ARD-DI08AE	ARD-DI16NE	ARD-DI16PE	ARD-DO08RE	ARD-DO08SE	ARD-DO16NE	ARD-DO16PE	ARD-DX16NE	ARD-DX16PE
Appearances & Dimensions		 <p>[W105×H52×L38.5mm]</p>								
Power supply		24VDC (allowable voltage range: 12-28VDC)								
Power consumption		Max. 3W								
I/O points		AC input 8 points	NPN input 16 points	PNP input 16 points	Relay output 8 points	SSR output 8 points	NPN output 16 points	PNP output 16 points	NPN input 8 + output 8 points	PNP input 8 + output 8 points
Control I/O	Voltage	75-250VAC	10-28VDC		Normal open (N.O.) 250VAC 2A 1a	30-250VDC	10-28VDC (voltage drop : Max. 0.5V)			
	Current	13mA / Point	10mA /Point			1A / Point	0.5A / Point (leakage current: Max. 0.5mA)		Input : 10mA, Output : 0.5A / Point (leakage current: Max. 0.5mA)	
	COMMON method	8 points, Common			1point, 1COM	8 points, Common				
Protection circuit		Surge, Reverse polarity protection circuit (common) Transistor output type - Overcurrent protection circuit (NPN type : Operated from 1.9A → Power is reapplied in overcurrent status, PNP type : Operated at min. 0.7A), Overheating protection (min. 165°C), Short-circuit protection								
Indicator		Network status LED (green, red), Module status LED (green, red), I/O status LED								
Material		Front case : PC, Body case : PC, Rubber cap : NBR								
Mounting		DIN rail or screw lock type								
Isolation type		I/O and inner circuit: insulated, DeviceNet and inner circuit: non-insulated, Power and DeviceNet: non-insulated								
Reference		S-5 to 12								


DeviceNet Digital Remote I/O, Sensor Connector Type

Model	Basic unit	ARD-DI08N-4S	ARD-DI08P-4S	ARD-DO08N-4S	ARD-DO08P-4S
	Expansion unit	ARX-DI08N-4S	ARX-DI08P-4S	ARX-DO08N-4S	ARX-DO08P-4S
Appearances & Dimensions		 <p>[W31×H81.8×L58mm]</p>			
Power supply		24VDC (allowable voltage range: 12-28VDC)			
Power consumption		Max. 3W			
Isolation type		Photocoupler isolated			
I/O points		NPN input 8 points	PNP input 8 points	NPN output 8 points	PNP output 8 points
Control I/O	Voltage	10-28VDC		10-28VDC (voltage drop : max. 0.5V)	
	Current	10mA/point (sensor current: 150mA/point)		Output: 0.3A/point (leakage current: max. 0.5mA)	
	COMMON method	8 points Common			
Protection circuit		Surge, Short-circuit, Overheating and ESD protection, Reverse polarity protection circuit Overcurrent protection circuit (operated at min. 0.17A) Overcurrent protection circuit (operated at min. 0.7A)			
Indicator		Network status (NS) LED (green, red), Unit status (MS) LED (green, red) I/O status LED (Input: green, output: red)			
Material		Front Case: PC, Body Case: PC			
Mounting		DIN rail or Screw lock type			
Isolation type		I/O and inner circuit: insulated, DeviceNet and inner circuit: non-insulated, Power and DeviceNet: non-insulated			
Reference		S-5 to 12			

DeviceNet Analog Remote I/O, Standard Terminal Block Type

Model	ARD-AI04	ARD-AO04	ARD-AO04V	ARD-AO04C
Appearances & Dimensions	 <p>CE</p> <p>[W105×H52×L38.5mm]</p> <p>DeviceNet CONFIDENCE TESTED</p> <p>(only for ARD-AI04, other models are compatible)</p>			
Power supply	24VDC (allowable voltage range: 12-28VDC)			
Power consumption	Max. 3W			
I/O points	Input 4 points (switchable voltage/current)	Output 4 points (voltage 2CH, current 2CH)	Output 4 points (voltage 4CH)	Output 4 points (current 4CH)
Control I/O	Voltage	0-10VDC, -10-10VDC, 0-5VDC, 1-5VDC, -5-5VDC (input impedance: min. 1MΩ)	0-10VDC, -10-10VDC, 0-5VDC, 1-5VDC, -5-5VDC (load resistance: min. 1KΩ)	0-10VDC, -10-10VDC, 0-5VDC, 1-5VDC, -5-5VDC (load resistance: min. 1KΩ)
	Current	DC4-20mA, DC0-20mA (input impedance: 250Ω)	DC4-20mA, DC0-20mA (load resistance: max. 600Ω)	—
	Max. allowable range	±5% for rated input range	±5% for rated output range	
	Resolution	14bit, 1/16,000		
Accuracy	<ul style="list-style-type: none"> At room temperature (25±5°C) range: ±0.3% F.S. Out of room temperature range: ±0.6% F.S. 			
Protection circuit	Surge, Static electricity, Reverse polarity protection circuit			
Indicator	Network status (NS) LED (green, red), Unit status (MS) LED (green, red)			
Material	Front Case: PC, Body Case: PC			
Mounting	DIN rail or Screw lock type			
Isolation type	I/O and inner circuit: non-insulated, DeviceNet and inner circuit: insulated, Power and DeviceNet: insulated			
Reference	S-13 to 24			

Modbus Digital Remote I/O, Sensor Connector Type

Model	Basic unit	ARM-DI08N-4S	ARM-DI08P-4S	ARM-DO08N-4S	ARM-DO08P-4S
	Expansion unit	ARX-DI08N-4S	ARX-DI08P-4S	ARX-DO08N-4S	ARX-DO08P-4S
Appearances & Dimensions	 <p>CE</p> <p>[W31×H81.8×L58mm]</p>				
Power supply	Rated voltage: 24VDC (allowable voltage range: 12-28VDC)				
Power consumption	Max. 3W				
I/O points	NPN input 8 points		PNP input 8 points		NPN output 8 points
Control I/O	Voltage	10-28VDC			10-28VDC (voltage drop : Max. 0.5V)
	Current	10mA/points (sensor current: 150mA/points)			0.3A/point (leakage current: Max.0.5mA)
	COMMON method	8 points Common			
Protection circuit	Surge, Short-circuit, Overheating and ESD protection, Reverse polarity protection circuit				
	Overcurrent protection circuit (operated at Min. 0.17A)			Overcurrent protection circuit (operated at Min. 0.7A)	
Indicator	Network status (NS) LED (green, red), Unit status (MS) LED (green, red), I/O status LED (input: green, output: red)				
Material	Front Case: PC, Body Case: PC				
Mounting	DIN rail or Screw lock type				
Isolation type	I/O and inner circuit: insulated, Modbus and inner circuit: non-insulated, unit power: non-insulated				
Reference	S-25 to 29				

(A) Photoelectric Sensors

(B) Fiber Optic Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

(F) Rotary Encoders

(G) Connectors/ Sockets

(H) Temperature Controllers

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

(L) Panel Meters

(M) Tacho / Speed / Pulse Meters

(N) Display Units

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers





(R) Graphic/ Logic Panels

(S) Field Network Devices

(T) Software

Product Overview

Communication Converter (RS232C to RS485 converter / USB to RS485 converter)



Series	SCM-US48I	SCM-38I
Appearances & Dimensions	 CE 	 CE 
	[W39×H23.5×L75.5mm]	[W39×H23.5×L75.5mm]
Power supply	5VDC USB bus Power ^{※1}	12-24VDC
Allowable voltage range	—	90 to 110% of rated voltage
Power consumption	Max. 1W	Max. 1.7W
Communication speed ^{※2}	1200 to 115200bps (1200/2400/4800/9600/19200/38400/56700/115200)	
Communication type	Half duplex type	
Available communication distance	USB: Max. 1m± 30% RS485: Max. 1.2km	Max. 1.2Km
Multi-drop	Max. 31 multi-drop	
Data type	Data Bit	5 to 8 data bits
	Stop Bit	1 or 2 stop bits
	Parity Bit	None/Odd/Even Parity Bit
Connection type	USB: B type connector	RS232: D-Sub 9Pin
	RS485: 4-wire Screw terminal (2 wires communication type)	
Accessory	USB AB Cable (length: 1m)	—
Reference	S-30 to 36	

※1: USB bus Power is supplied from PC or USB host controller.

※2: Protocol and Communication speed are set by Hyper terminal, DAQ master, ParaSet, Modbus Poll.
When communicating with Autonics products, set communication speed to 9,600bps.



※ There might be some differences in the specification above depending on PC environment.

Communication Converter (USB to Serial converter)

Series	SCM-US	
Appearances & Dimensions	 CE 	※Cable length 1.5m
	[W52×H18×L8mm]	
Power supply ^{※1}	5VDC USB bus Power	
Power consumption	Max. 1W	
Communication speed ^{※2}	Recommended - 9600bps (1200/2400/4800/9600/19200/38400/57600/115200)	
Communication type	Half duplex type	
Available communication distance	1.5m (extension is not allowed)	
Isolation type	Non-isolated	
Connector type	<ul style="list-style-type: none"> • Computer - USB (Type A) • Autonics and KONICS products which support PC loader port - Earphone jack (4 pole stereo phone plug) 	
Reference	S-30 to 36	

Product Overview

Communication converter(USB to Serial converter)

Series	SCM-US	
Appearances & Dimensions		※Cable length 1.5m
		
	[W52×H18×L8mm]	
Power supply※1	5VDC USB bus Power	
Power consumption	Max. 1W	
Communication speed※2	Recommended - 9600bps(1200/2400/4800/9600/19200/38400/57600/115200)	
Communication type	Half duplex type	
Available com. distance	1.5m(extension is not allowed)	
Isolation type	Non-isolated	
Connector type	<ul style="list-style-type: none"> • Computer - USB(Type A) • Autonics and Konics products which support PC loader port - Earphone jack(4 pole stereo phone plug) 	
Reference	S-31 to 40	

(A)	Photo electric sensor
(B)	Fiber optic sensor
(C)	Door/Area sensor
(D)	Proximity sensor
(E)	Pressure sensor
(F)	Rotary encoder
(G)	Connector/Socket
(H)	Temp. controller
(I)	SSR/ Power controller
(J)	Counter
(K)	Timer
(L)	Panel meter
(M)	Tacho/ Speed/ Pulse meter
(N)	Display unit
(O)	Sensor controller
(P)	Switching mode power supply
(Q)	Stepper motor& Driver&Controller
(R)	Graphic/ Logic panel
(S)	Field network device
(T)	Software
(U)	Other