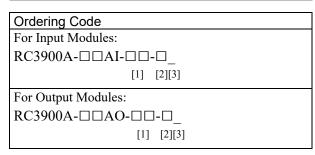


MS3900

DESCRIPTION

The RC3900A is a chassis that accommodates MS3900 series isolated signal conditioners. All wiring connections are made to the terminal blocks on the chassis. Single power connection to the chassis permits power supply to all I/O modules mounted therein through its motherboard.

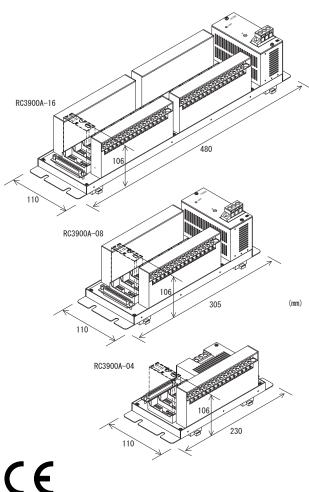
ORDERING INFORMATION



SPECIFICATIONS

GENERAL	
Power	■ 85–264V AC (47–63Hz) rated for
Requirements	100V–240V······AU
(Specify a code in	■ 24V DC ·····D1
the field [1].)	
Installation	■ DIN rail mounting (Optional) D
(Specify a code in	■ Wall mounting
the field [2].)	_
ADDITIONAL	
Options [3]	■ CE compliant······/C
	Notes:
	1. This only applies to orders having a
	code of "-08AI" or "-16AI".
	2. CE-compliant modules must be used to
	meet the CE marking requirements.
	■ Polyurethane conformal coating ···· /H
PHYSICAL	
Wiring	AI: Input, Output 1, and Output 2
(Connector)	terminal blocks: M3.5 screw
(See the tables	Output 1 connector: 37-pin D-
on page 2.)	subminiature (Hirose SDCB-37S)
	AO: Input and Output terminal blocks:
	M3.5 screw

Input connector: 37-pin Dsubminiature (Hirose SDCB-37P)



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External	04AI/04AO:
Dimensions	Wall mount: W230 \times H110 \times D99 mm
(with modules	DIN rail mount: W230 × H110 × D106 mm
mounted)	08AI (exc. 08AI-AU-□/C)/08AO:
	Wall mount: W305 \times H110 \times D99 mm
	DIN rail mount: W305 × H110 × D106 mm
	08AI-AU-□/C:
	Wall mount: W305 \times H110 \times D123 mm
	DIN rail mount: W305 × H110 × D130 mm
	16AI (exc. 16AI-AU-□/C)/16AO:
	Wall mount: W480 \times H110 \times D99 mm
	DIN rail mount: W480 × H110 × D106 mm
	16AI-AU-□/C:
	Wall mount: W480 × H110 × D123 mm
	DIN rail mount: W480 × H110 × D130 mm

WIRING CONNECTIONS Chassis for Input Modules

Input Side	Outpu	ıt Side
	Output 1	Output 2
M3.5 screw terminals	M3.5 screw terminals or 37-pin D- subminiature connector	M3.5 screw terminals

Chassis for Output Modules

Input Side	Output Side
M3.5 screw terminals or 37-pin D- subminiature connector	M3.5 screw terminals

PERFORMANCE

PERFORMANCE	
Number of	Up to 16 modules
MS3900	Note: The RC3900A-□□AO only
Modules	accommodates two models,
Accommodated	MS3954 and MS3954HI (High
	Level Signal Conditioners).
Power Indicator	Green LED lights when the power is ON.
LED	(Only for 04AI/AO)
Insulation	100MΩ min. (@ 500V DC) between
Resistance	input, [output 1, output 2], power, and
	FG.
Dielectric	AI:
Strength	Input / (Output 1, Output 2, Power, FG):
C C	1500V AC for 1 minute (Cutoff
	current: 0.5mA)
	Output 1 / Output 2 / (Power, FG):
	500V AC for 1 minute (Cutoff
	current: 0.5mA)
	Power / FG:
	500V AC for 1 minute (Cutoff
	current: 5mA)
	Output channel to output channel:
	200V AC for 1 minute (Cutoff
	current: 0.5mA)
	AO:
	Output / (Input, Power, FG):
	1500V AC for 1 minute (Cutoff
	current: 0.5mA)
	Input / (Power, FG):
	500V AC for 1 minute (Cutoff
	current: 0.5mA)
	Power / FG:
	500V AC for 1 minute (Cutoff
	current: 5mA)
	Input channel to input channel:
	200V AC for 1 minute (Cutoff
	current: 0.5mA)
Operating	Ambient temperature: 0 to 55°C
Environment	Humidity: 5 to 90% RH (non-condensing)
Current	04AI:
Consumption	AC powered: \leq 25VA (rated for
	100VAC; fully loaded)
	\leq 35VA (rated for
	240VAC; fully loaded)
	DC powered: \leq 350mA (rated for
	24VDC; fully loaded)

Current	04AO:
Consumption	AC powered: ≤ 15 VA (rated for
(Continued)	100VAC; fully loaded)
(00000000)	≤ 25 VA (rated for
	240VAC; fully loaded)
	DC powered: ≤ 200 mA (rated for
	24VDC; fully loaded)
	08AI:
	AC powered: ≤ 45 VA (rated for
	100VAC; fully loaded)
	≤ 60 VA (rated for
	240VAC; fully loaded)
	DC powered: ≤ 600 mA (rated for
	24VDC; fully loaded)
	08AO:
	AC powered: ≤ 25 VA (rated for
	100VAC; fully loaded)
	\leq 35VA (rated for
	240VAC; fully loaded)
	DC powered: ≤ 400 mA (rated for
	24VDC; fully loaded)
	16AI:
	AC powered: ≤ 75 VA (rated for
	100VAC; fully loaded)
	\leq 95VA (rated for
	240VAC; fully loaded)
	DC powered: $\leq 1.2A$ (rated for 24VDC;
	fully loaded)
	16AO:
	AC powered: ≤ 45 VA (rated for
	100VAC; fully loaded)
	≤ 60 VAC, fully loaded) ≤ 60 VA (rated for
	240VAC; fully loaded)
	DC powered: \leq 750mA (rated for
	24VDC; fully loaded)
Inrush Current	04AI/AO:
	AC powered: \leq 30A (240VAC @ 25°C)
	$DC \text{ powered:} \leq 5A (24VDC @ 25°C)$
	08AI/AO & 16AI/AO:
	AC powered: $\leq 35A$ (240VAC @ 25°C)
	AC powered: $\leq 33A (240 \text{ VAC} @ 25 \text{ C})$ DC powered: $\leq 30A (24 \text{ VDC} @ 25^{\circ}\text{C})$
Storage	$-10 \text{ to } 60^{\circ}\text{C}$
Storage	
Temperature	l
MATERIAL	

Case SECC-JN PC Board Glass fabric, epoxy resin

WEIGHT

RC3900A-16AI/AO-AU-D	2,100g max.
RC3900A-16AI/AO-AU-R	2,100g max.
RC3900A-16AI/AO-D1-D	2,000g max.
RC3900A-16AI/AO-D1-R	2,000g max.
RC3900A-08AI/AO-AU-D	1,400g max.
RC3900A-08AI/AO-AU-R	1,400g max.
RC3900A-08AI/AO-D1-D	1,300g max.
RC3900A-08AI/AO-D1-R	1,300g max.
RC3900A-04AI/AO-AU-D	900g max.
RC3900A-04AI/AO-AU-R	850g max.
RC3900A-04AI/AO-D1-D	800g max.
RC3900A-04AI/AO-D1-R	760g max.

MTT Corporation

STANDARDS CONFORMITY

EC Directives	EMC Directive (2014/30/EU)
Conformity	EN61326-1:2013
	Low Voltage Directive (2014/35/EU)
	IEC61010-1
	EN61010-1:2010/A1:2019
	Installation Category II
	Pollution Degree 2
	Maximum operating voltage 300V