



**DESCRIPTION**

The RC2900 is a chassis that accommodates MS2900 series isolated signal conditioners. All wiring connections are made to the terminal blocks and/or connector on the chassis. Single power connection to the chassis permits power supply to all I/O modules mounted therein through its motherboard.

**ORDERING INFORMATION**

Ordering Code
RC2900-□□□□-□-□ [1] [2] [3] [4]

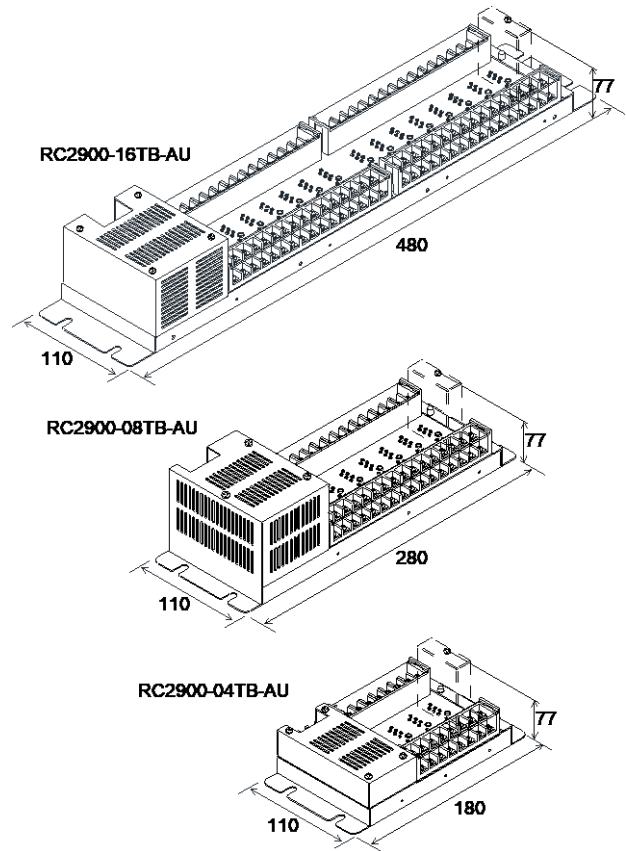
**SPECIFICATIONS**

**GENERAL**

Number of Modules Accommodated (Specify a code in the field [1].)	<ul style="list-style-type: none"> <li>■ 16 ..... 16</li> <li>■ 8 ..... 08</li> <li>■ 4 ..... 04</li> </ul>
Wiring (Specify a code in the field [2].)	M3.5 screw terminals, D-subminiature connector (See the table at right.)
Power Requirements (Specify a code in the field [3].)	<ul style="list-style-type: none"> <li>■ 24V DC ..... D1</li> <li>■ 85–264V AC (47–63Hz) rated for 100–240V ..... AU</li> </ul>
Installation (Specify a code in the field [4].)	<ul style="list-style-type: none"> <li>■ Wall mounting ..... Blank</li> <li>■ DIN rail mounting (special order) ... D</li> </ul> <p>Note: DIN rail mounting is only available with 16TB, 08TB, 08C1, and 04TB models. These are special order products, so please contact our sales representatives for pricing.</p>

**PHYSICAL**

External Dimensions (with modules mounted)	<p>RC2900-04TB-D1/AU: W180 × H95 × D77 mm</p> <p>RC2900-08TB-D1/AU: W280 × H95 × D77 mm</p> <p>RC2900-08C1-D1/AU: W280 × H88 × D77 mm</p> <p>RC2900-16TB-D1/AU: W480 × H95 × D77 mm</p> <p>RC2900-16C1-D1/AU: W480 × H88 × D77 mm</p>
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**WIRING CONNECTIONS**

**Input Modules**

Input Side	Output Side		Code
	Output 1	Output 2	
M3.5 screw terminals	M3.5 screw terminals	M3.5 screw terminals	TB
	37-pin D-subminiature connector (DDK: 17JE-13370-37) Connector fixing screw: M2.6	M3.5 screw terminals	C1

**Output Modules**

Output Side	Input Side	Code
M3.5 screw terminals	M3.5 screw terminals	TB
	37-pin D-subminiature connector (DDK: 17JE-13370-37) Connector fixing screw: M2.6	C1

**PERFORMANCE**

Insulation Resistance	100MΩ min. (@ 500V DC) between input, output, power, and FG.
Dielectric Strength	<input type="checkbox"/> Input Modules: Input / [Output 1, Output 2, Power, FG]: 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) Channel to channel: 200V AC for 1 minute (Cutoff current: 0.5mA) <input type="checkbox"/> Output Modules: 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) Channel to channel: 200V AC for 1 minute (Cutoff current: 0.5mA)
Operating Environment	Ambient temperature: 0 to 55°C Humidity: 5 to 90% RH (non-condensing)
Power Consumption	04TB-AU: ≤ 25VA (rated for 100V AC; fully loaded) ≤ 38VA (rated for 240V AC; fully loaded) 04TB-D1: ≤ 8W (rated for 24V DC; fully loaded) 08□□-AU: ≤ 35VA (rated for 100V AC; fully loaded) ≤ 50VA (rated for 240V AC; fully loaded) 08□□-D1: ≤ 16W (rated for 24V DC; fully loaded) 16□□-AU, 16C□-WAU: ≤ 60VA (rated for 100V AC; fully loaded) ≤ 80VA (rated for 240V AC; fully loaded) 16□□-D1: ≤ 31.5W (rated for 24V DC; fully loaded)

Inrush Current	04TB-AU: ≤ 30A (240V AC @ 25°C) 04TB-D1: ≤ 5A (24V DC @ 25°C) 08□□-AU & 16□□-AU: ≤ 35A (240V AC @ 25°C) 08□□-D1 & 16□□-D1: ≤ 30A (24V DC @ 25°C) 16C□-WAU: ≤ 35A (240V AC @ 25°C) per AC power unit
Storage Temperature	-10 to 60°C

**MATERIAL**

Case	SECC-JN
PC Board	Glass fabric, epoxy resin (FR-4: UL 94V-0)
Screw Terminal	Nickel-plated steel
Terminal Block	PBT resin

**WEIGHT**

Model Number	Weight
RC2900-16TB-AU	Approx. 1,500g
RC2900-16TB-D1	Approx. 1,150g
RC2900-16C1-AU	Approx. 1,350g
RC2900-16C1-D1	Approx. 1,050g
RC2900-08TB-AU	Approx. 950g
RC2900-08TB-D1	Approx. 700g
RC2900-08C1-AU	Approx. 850g
RC2900-08C1-D1	Approx. 650g
RC2900-04TB-AU	Approx. 530g
RC2900-04TB-D1	Approx. 450g

**RC2900-01TB-D1**

Ordering Code
RC2900-01TB-D1

**SPECIFICATIONS**

**PERFORMANCE**

Power Requirement	24V DC±10%
Insulation Resistance	100MΩ min. (@ 500V DC) between input, output 2, and power.
Dielectric Strength	Input / [Output 2, Power]: 1500V AC for 1 minute (Cutoff current: 0.5mA) Output 2 / Power: 500V AC for 1 minute (Cutoff current: 0.5mA)
Operating Environment	Ambient temperature: 0 to 55°C Humidity: 5 to 90% RH (non-condensing)
Storage Temperature	-10 to 60°C

**PHYSICAL**

Number of Modules Accommodated	1
Installation	DIN rail mounting DIN/EN50045 (15×5) DIN/EN50022 (35×7.5) DIN/EN50035 (G32)
Wiring	Multipolar screw terminal connection
External Dimensions (with modules mounted)	W22.5 × H77 × D92 mm
Weight	Approx. 35g

**MATERIAL**

Housing	Polyamide
PC Board	Glass fabric, epoxy resin (FR-4: UL 94V-0)

Note: Only Output 2 signal is available on the output terminals. Output 1 signal is not obtainable.

**RS2900**

Ordering Code
RS2900-□-01TB-□ [1] [2]

**SPECIFICATIONS**

**GENERAL**

Installation (Specify a code in the field [1].)	<input checked="" type="checkbox"/> DIN Rail mounting, DIN/EN5022 (35×7.5)..... D <input checked="" type="checkbox"/> Wall mounting..... R
Power Requirements (Specify a code in the field [2].)	<input checked="" type="checkbox"/> 24V DC ..... D1 <input checked="" type="checkbox"/> 85–264V AC (48–62Hz) rated for 100–240V ..... A1

**PERFORMANCE**

Insulation Resistance	100MΩ min. (@ 500V DC) between input, output 1, output 2, power, and FG.
Dielectric Strength	Input / [Output 1, Output 2, Power, FG]: 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: 1500V AC for 1 minute (Cutoff current: 5mA)
Operating Environment	Ambient temperature: -5 to 55°C Humidity: 5 to 95% RH (non-condensing)
Storage Temperature	-10 to 60°C

**PHYSICAL**

Number of Modules Accommodated	1
Wiring	M3.5 screw terminal connection (with power terminal block cover)
External Dimensions (with modules mounted)	DIN rail mounting: W23.5 × H99 × D107.5 mm Wall mounting: W23.5 × H99 × D120 mm

**MATERIAL**

Housing	PBT resin (UL 94V-0)
Screw Terminal	Terminals #1 - #10: Nickel-plated steel Terminal FG: Nickel-plated brass
PC Board	Glass fabric, epoxy resin (FR-4: UL 94V-0)

**WEIGHT**

Model Number	Weight
RS2900-D-01TB-A1	Approx. 110g
RS2900-D-01TB-D1	Approx. 100g
RS2900-R-01TB-A1	Approx. 110g
RS2900-R-01TB-D1	Approx. 100g