



ROOM CONTROL UNIT

20 INPUT 24 OUTPUT

Data Sheet Rev 3.2

Model: RCU-24R20Z



OVERVIEW

The module has 20 channel inputs and 24 channel outputs; thus, it is capable of controlling almost everything in an automation project. This device is compatible with all the sensors, lights, FCU, curtains, shutters, and motors available on the market. This unit can control a large area, performing all functions while also monitoring and decreasing energy consumption.

RCU lets you know how much energy is consumed per day, month, and year. They provide you with a concise consumption report to assist you in developing and implementing effective energy management policies.

KEY BENEFITS

- + 24 Switching power relay
- + 20 Digital inputs
- + Works with TIS-BUS protocol
- + Timer and consumption calculation function
- + 2 Buttons for emergency switching ON/OFF control

KEY FEATURES

- ★ Standard 35 mm Din-Rail mounted
- ★ Free voltage switching output
- ★ 10A current per channel
- ★ Reverse polarity protection
- ★ DIY programming



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PRODUCT SPECIFICATIONS

↑ Output Switching Voltage	Number of channels	24
	Nominal voltage	0 – 230 V AC 50/60 Hz
	Max. switching voltage	440VAC / 125VDC
↑ Output switching current	Nominal current per channel	Ch. 1-12: 10A, Ch. 13-24: 5A
	Maximum total channels load	180 A / 230
	Max switching current	Ch. 1-12: 16A, Ch. 13-24: 6A
	Max continues current	Ch. 1-12: 10A, Ch. 13-24: 5A
↑ Output service life	Mechanical service life	> 10,000,000 Times
	Operating time	15mS (at nomi. Volt)
↑ Output switching times	Releasing time	8 mS (at nomi. Volt)
	Max. operating frequency	20 cycle/min
↓ Input	Number of channels	20
	Input Type	Digital input. Open / Close
	Length of connected wire	< 350 meter
TISBUS TIS Bus	Number of devices on 1 line	Max. 64
	Bus voltage	12-32 V DC
	Current consumption (Normal)	<45 mA / 24 V DC
	Current consumption (Peak)	<400 mA / 24 V DC
	Protection	Reverse polarity protection
🕒 Reaction time		approx. 20ms
🔧 Operating and display elements	Programming button/LED	For assignment of the physical address
	2 buttons	Manually ON/OFF and programming
	By TIS bus Programming	TIS protocol messages and commands Manual basic programming, or by software.
🔧 Mounting	Din Rail	Standard 35 mm Din rail
	Wall mount	screw holder on the back of the module
🔧 Connection terminal	Load and Power	Screw terminal 0,25...4mm ²
	Data / bus	Male/female connectors Link + screw Terminal
⚙️ Functions	Lighting control ON/OFF/Dimming	24 channels controlled separately
	Curtain control	Can set 12 groups of curtains (open/close) option
	Fan speed control	Can set 8 groups of fan (low, med, high) option
	Scenes	12 different scenarios
	24 digital inputs	Programmable inputs to connect to normal wall switches and sensors



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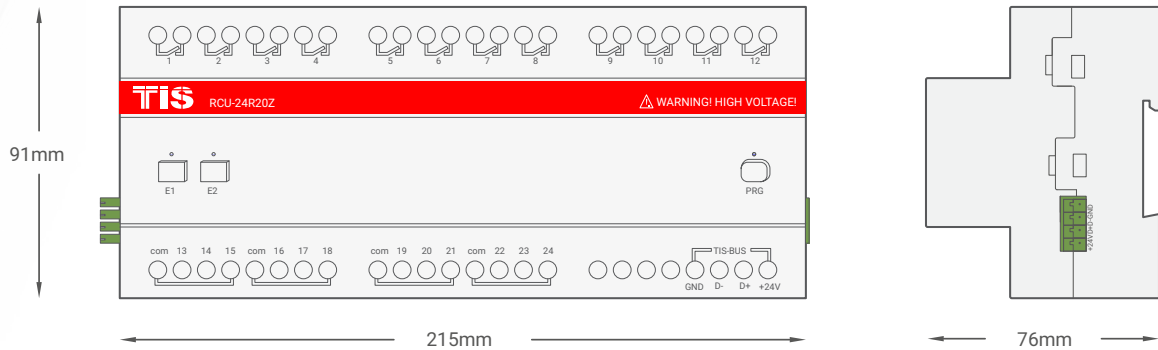
Model: RCU-24R20Z

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PRODUCT SPECIFICATIONS

	Weight	Without packaging	0.5 KG
	Dimensions	Width x Length x Height	215mm x 75mm x 91mm
	Housing	Materials	ABS fire proof
		Casing color	Black Gray
		Button color	Silver
		IP rating	IP 20
	Temperature range	Operation	0...60°C
		Storage	-20...50°C
		Transport	-25...75°C
	Air humidity	<85% non-condensing	



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