

### Room Control Unit

8 INPUT 8 OUTPUT Model: RCU-818O

Products Datasheets V3.1







## **OVERVIEW**

The module has 8 channel inputs and outputs with one 0-10V output channel; 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 let 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**

- 8 Switching Latching Relay
- 8 Digital inputs
- 8 Buttons for Manual ON/OFF
- 1 channel 0-10V Output
- Timer and consumption calculation function
- Works with TIS-BUS Protocol

#### **KEY FEATURES**

- 🖈 Standard 35 mm Din-Rail Mounted
- 🖈 Free Voltage Switching output
- 10A Current per channel
- Reverse Polarity Protection
- DIY Programming





TIS









# Room Control Unit 8 INPUT 8 OUTPUT



#### PRODUCT CHARACTERISTICS

**Outputs switching** Voltage

Number of channels Nominal voltage Max. switching Voltage **Analog Output** 

0 - 230 V AC 50/60 Hz 440VAC / 125VDC Ch8 include 0-10V output for dimming Ch1 20A, Ch 2-8 10 A / 230 VAC

**Output switching** current

Nominal current per channel Maximum total channels load Max switching current

90 A / 230 VAC 16A/230 VAC Resistive 8A/230 VAC florescent 10A/230 VAC

5<sup>†</sup>2 Output service life Max Continues current Mechanical service life

> 10,000,000 Times

STO **Output switching times** 

display elements

Operating time Releasing time Max. operating frequency 15mS (at nomi. Volt) 8 mS (at nomi. Volt) 20 cycle/min

Input

Number of channels Input Type Length of connected wire

Digital input. Open / Close < 350 meter

Number of devices on 1 line Bus voltage Current consumption (Normal) Current consumption (Peak) Protection

Max. 64 12-32 V DC <15 mA / 24 V DC <140 mA / 24 V DC Reverse Polarity Protection

approx. 20ms



(O) **Reaction time** 

> Programming button/LED Operating and 1-8 buttons

By TIS bus Programming For assignment of the physical address Manually ON/OFF and Programming TIS Protocol messages and commands Manual basic Prog, or by software.



Din Rail Mounting Wall mount

Standard 35 mm Din rail

screw holder on the back of the module Screw terminal 0.25...4mm<sup>2</sup>

Ψ

Load and Power **Connection terminal** 

Data / bus

Lighting control ON/OFF Dimming 8 channels controlled separately Curtain control

Fan speed control Dimming 8 Digital inputs

Can set 4 group of curtains (open/close) option Can set 2 group of Fan (low, med, high) option Ch 8 used with 0-10V output for dimming 8 different scenarios Programmable inputs to connect to normal wall

Male female connectors link + screw terminal

Weight Without packaging 0.45 KG

**Dimensions** Width x length x height

91mm x 145mm x 75mm ABS anti fire

switches and sensors

Housing

**Functions** 

Materials Casing color Button color IP rating

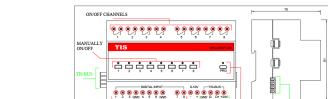
Operation

Storage Transport Black Gray Silver IP 20 0...60°C

Air humidity

Temperature range

-20...50°C -25...75°C <85% non-condensing



DIGITAL INPUT 145



0-10 OUTPUT T