

RCM

Datasheet



yobitq



Product overview

The YOBIIQ RCM series brings wireless relay control to industrial equipment, building services and remote installations. Combine LoRaWAN control with schedules stored inside the device, local pushbutton operation and a configurable fallback state.

Choose from 12 DIN-rail variants: mains or low-voltage supply, one or two relay outputs, and 10 A or 16 A current ratings. Selected models include current measurement. Use RCM to control suitable pumps, valves, contactors, lighting and other equipment circuits.

The RCM series models are all equipped with RGB LED's for Power Status, LoRaWAN Status and Output Status. There are also independent pushbuttons for Relay Output Override and Network Join / Reset.

Why choose RCM?

Capability	Benefit
LoRaWAN remote switching	Control equipment without a dedicated control cable back to the application.
Onboard schedules	Store operating schedules inside the controller.
Local pushbuttons	Control connected equipment directly at the device.
Configurable fallback	Set the return state after power or network loss.
Current measurement	Monitor current on the variants identified below.
YOBIIQ D2D	Communicate directly between devices without network-server connectivity.
Kibi Mobile App	Configure the device locally through BLE.
DIN-rail mounting	Integrate into electrical cabinets using TS35 mounting.

Applications

Application	Example uses
Water and irrigation	Pump commands, irrigation valves and water-distribution equipment.
Industry	Contactors switching, equipment commands and control-system relay interfaces.
Agriculture	Greenhouse equipment, fertigation and field actuators.
Buildings	HVAC equipment, lighting, exhaust fans and access equipment.
Utilities and remote sites	Alarm outputs, utility cabinets, telecom sites and street-lighting.
Renewable energy	Relay control within solar, inverter and battery installations.

Electrical specifications

Parameter	RCM-L	RCM-H
Supply	5–24 VDC	85–250 VAC
Supply frequency	DC	50 Hz
Power connection	Terminal block	Terminal block
Relay outputs	1 or 2, depending on model	1 or 2, depending on model
Switching current	10 A or 16 A, depending on model	10 A or 16 A, depending on model
Maximum switching voltage	277 VAC / 30 VDC	277 VAC / 30 VDC

Match the relay to the load type, inrush current and switching duty. Use a suitably rated contactor or control interface where required. Supply voltage and switched voltage are separate specifications.

Temperature Protection

The internal circuit of the device is monitored to detect abnormal internal device temperatures. Abnormal temperatures can result from overloading the relay or the internal circuit / busbar etc.

The temperature threshold is fixed at the maximum operating temperature as listed within the technical specifications. If the measured temperature goes above the threshold, the relay channels will be turned off immediately regardless of the relay state or the manual override.

When the temperature drops 5°C below the maximum operating temperature the device will return to the initial device state

Variants

Model	SKU	Supply	Relays	Rating	Current measurement
RCM-H-1C-10X	260021	85-250 VAC	1	10 A	Not included
RCM-H-2A-10X	260022	85-250 VAC	2	10 A	Not included
RCM-H-2A-10M	260023	85-250 VAC	2	10 A	Included
RCM-H-1C-16X	260024	85-250 VAC	1	16 A	Not included
RCM-H-2A-16X	260025	85-250 VAC	2	16 A	Not included
RCM-H-2A-16M	260026	85-250 VAC	2	16 A	Included
RCM-L-1C-10X	260027	5-24 VDC	1	10 A	Not included
RCM-L-2A-10X	260028	5-24 VDC	2	10 A	Included
RCM-L-2A-10M	260029	5-24 VDC	2	10 A	Included
RCM-L-1C-16X	260030	5-24 VDC	1	16 A	Not included
RCM-L-2A-16X	260031	5-24 VDC	2	16 A	Included
RCM-L-2A-16M	260032	5-24 VDC	2	16 A	Included

For ordering, specify the full model code and SKU, radio region and load details.

Communication and configuration

Parameter	Specification
LoRaWAN version	1.0.4
Device class	Class C by default; configurable to Class A
Activation	OTAA
Radio regions	EU868, IN865
Maximum transmit power	14 dBm at 868 MHz, 23 dBm at 865 MHz
LoRa antenna	Built-in; external SMA option
Local wireless interface	BLE with password authentication
Mobile configuration	Kibi Mobile App
Device-to-device communication	YOBIQ D2D
Automation	Onboard schedules, event-driven and threshold logic
Network security	LoRaWAN AES-128 encryption and OTAA activation

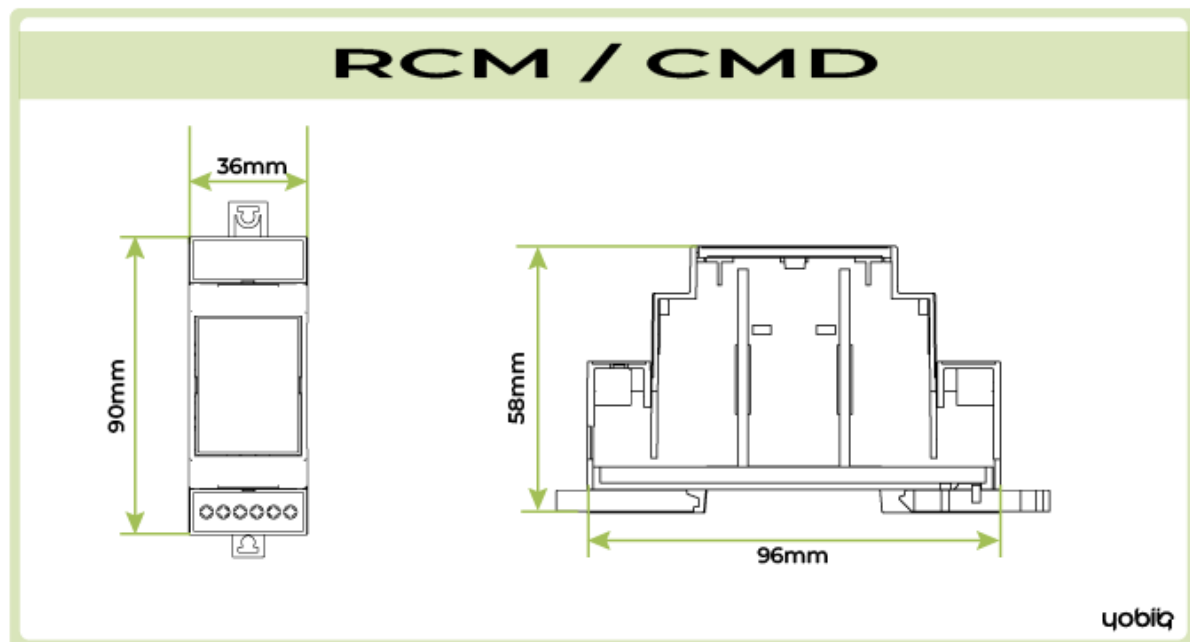
Integrate with ChirpStack, The Things Network, LORIoT or a private LoRaWAN network server. Match the radio region, device profile and RCM payload decoder to the installed unit.

Internal Temperature Sensor

Parameter	Value
Temperature Accuracy	+/- 0.2°C
Humidity Accuracy	+/- 1.8% rH

Mechanical and environmental specifications

Parameter	Value
Enclosure dimensions	90 × 36 mm (height × width)
Width	Two DIN modules
Mounting	TS35 DIN rail
Enclosure material / colour	ABS UL94-V0 / green
Enclosure protection	IP20
Approximate weight	150 g
Operating temperature	-30°C to +55°C
Storage temperature	-40°C to +85°C
Operating humidity	0-85% RH, non-condensing



Certifications & Compliance

Certification / Compliance	Details
Electromagnetic Compatibility	EMC 2014/30/EU (SS-EN 55032:2015, SS-EN IEC 61000-6-1, -2, -3, -4)
Electrical Safety	LVD 2014/35/EU (IEC 62368-1:2018)
Radio	RED 2014/53/EU (EN 300 220-1, EN 300 220-2, EN 301 489-1, EN 301 489-3)
RoHS	RoHS 2002/95/EG
HS Code	8536 49 00 99
Country of Origin	The Netherlands

**YOBIIQ B.V.**

Sanderboutlaan 17
6181 DN Elsloo
The Netherlands

Phone +31 (0)46 808 05 05

YOBIIQ UNITED KINGDOM LTD.

128 City Road
EC1V 2NX London
United Kingdom

+44 (0)20 3376 6083

www.yobiiq.com

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