Specification

Operating temperature	-10 to +50°C
Storage temperature	-20 to +60°C
Humidity	0 to 95% noncondensing
IP rating	IP54
Operating voltage	18 to 30 VDC
Typical operating current	22 mA at 24 VDC
Max operating current	25mA at 18 VDC
Operating frequencies	868 MHz
Output transmitter power	Auto adjusting 0 to 14 dBm *(0 to 25 mW)*
Signalling protocol	X
Dimensions *(W x H x D)*	270 x 205 x 75 mm
Weight	0.95 kg

Regulatory information

Manufacturer	KGS Manufacturing Poland Sp. z o.o. Ul. Kolejowa 24. 39-100 Ropczyce, Poland
Year of manufacture	See serial number label inside unit
Certification	CE 13 0905 UKCA 24 0359
CPR DoP	0359-CPR-00249
Approved to	EN54-18 EN54-25
Location	Type A: For indoor use
European Union directives	EMS declares that this device is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: firesecurityproducts.com
	2012/19/EU *(WEEE directive):* Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see recyclethis.info

Contact information and product documentation

For contact information or to download the latest product documentation, visit firesecurityproducts.com.

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ZITON

RCC 24V installation guide

General

The Ziton radio cluster communicator *(RCC)* 24V is available under the following part number:

PART NO	VARIANT TYPE
ZPR868 -C	**Ziton RCC 24V c/w wire aerials**

The address of the unit is set using the menu programming structure available on the systems associated radio hub – see programming manual *(TSD021)* for details of compatible Ziton devices and full programming information.

Pre installation

Installation must conform to applicable local installation codes and should only be installed by a fully trained competent person.

Ensure the RCC is installed as per the site survey.

This device contains electronics that may be susceptible to damage from Electrostatic Discharge *(ESD)*. Take appropriate precautions when handling electronic boards.

Mounting location guidelines

Ensure that the RCC is sited in accordance with the survey and design details. The recommended minimum distance between metal objects from the aerial is 600 mm. The recommended minimum distance to any electrical equipment is 2 metres.

Note: the above points exclude the power supply, provided it is mounted below the RCC as shown. *(Figure 1)*

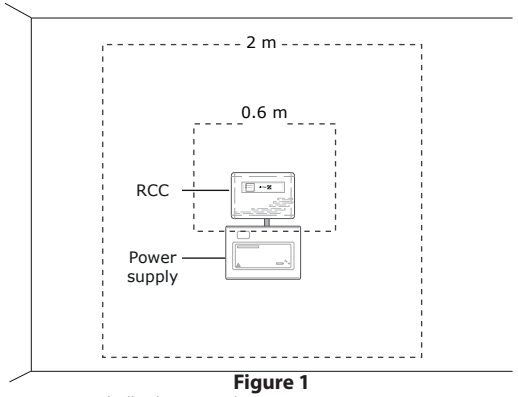


Figure 1

Power requirements

To meet the requirements of BS5839-1, the RCC should be powered from a dual output 24 VDC power supply. The power supply must be EN54-4 approved.

The unit draws an average of 22 mA at 24 VDC and a maximum of 25 mA at 18 VDC. The operating voltage range is 17 to 30 VDC. The current drawn from the RCC should be taken into consideration when calculating the total load of the 24 VDC PSU.

Remove cable entry points

To gain access into the unit, remove the four corner covers and screws, allowing removal of the front plate. These must be kept in a safe place for refitting once installation is complete. Housed inside the unit will be the RCC PCB.

Care must be taken to ensure the RCC PCB is not damaged during the installation process. The RCC PCB can be removed for additional access to mounting points if required. See the 'Removing/inserting the RCC PCB' section for more details.

Retain the four corner covers and screws for re-assembly when installation completed.

Drill the cable entry points as necessary. Available cable access points are shown. *(Figure 2)*

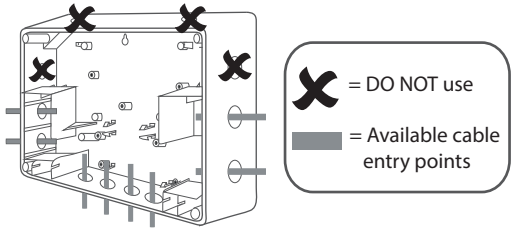


Figure 2

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Fix to the wall

Position the Ziton RCC in the required location and mark the five fixing positions shown. *(Figure 3)*

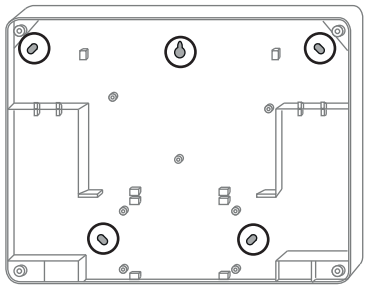


Figure 3

Using suitable screws and fixings install the top screw and locate over the keyhole slot provided. Ensure the screw does not protrude too far from the wall so a secure mounting can be achieved.

All five circled fixing positions are available for use as required.

Removing / inserting the RCC PCB

The RCC PCB can be removed for additional access to mounting points if required.

If removed, care must be taken to ensure that the PCB is carefully stored, correctly re-inserted and held in place by all four PCB retaining clips. The PCB must also be further secured using all three PCB retaining screws.

The locations of the PCB retaining clips and PCB retaining screws are shown. *(Figure 4)*

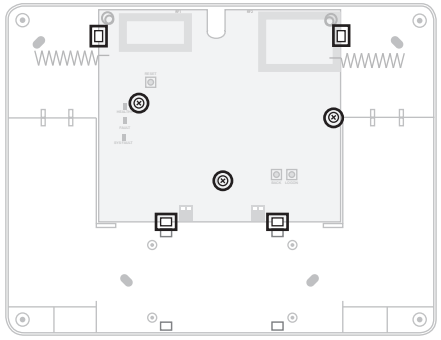


Figure 4

In order to remove the PCB, firstly remove all three PCB retaining screws. Then release the top two PCB retaining clips, by gently easing them outwards. This will allow the top of the PCB to be freed. Release the bottom two PCB retaining clips by gently easing them outwards. This will release the PCB.

Having now unclipped the PCB, it must be carefully lifted away from the casework and stored in a suitable, safe location.

To re-insert the PCB, firstly lower into place and slide the lower edge of the PCB under the bottom two PCB retaining clips *(Figure 4)*. Then ease the top two PCB retaining clips outwards and secure it into place. The PCB should now be correctly affixed into position. Secure the PCB in the housing by refitting all three PCB retaining screws.

Wiring connections

The 24 VDC RCC has four power connections: POWER1 +, - and POWER2 +, -. The connections are accessed by removing the front cover of the RCC. The cable is to be passed through the access points provided. *(Figure 2)*

The following wiring drawings detailing a single RCC *(Figure 5),* and multiple RCCs *(Figure 6)* should be followed.

Wiring a single RCC

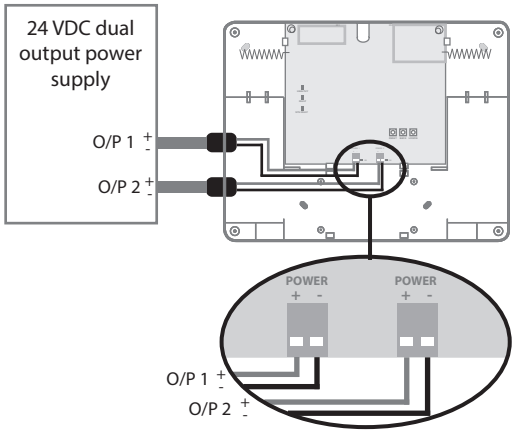
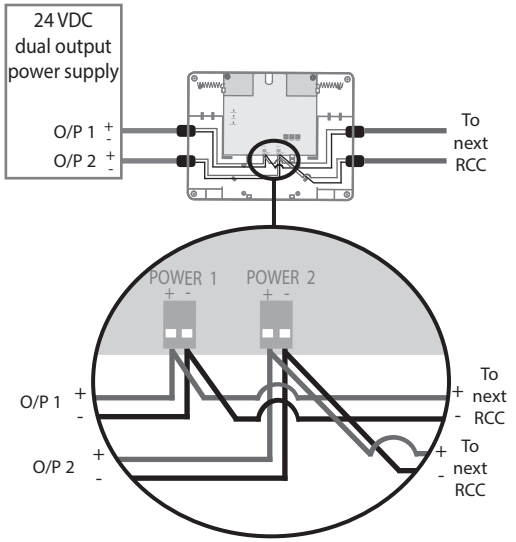


Figure 5

Wiring multiple RCCs



Note: There should be 300 mm spacing between O/P 1 and O/P 2's cables where possible.

Figure 6

Applying power

Apply power to the power supply. The normal LED states for the RCC are as below:

- HEALTHY LED - the green LED will be on.
- FAULT LED - the yellow LED will be off.
- SYS FAULT LED - the yellow LED will be off.
- POWER 1 LED - the green LED will be on.
- POWER 2 LED - the green LED will be on.

The LED locations are shown below. *(Figure 7)*

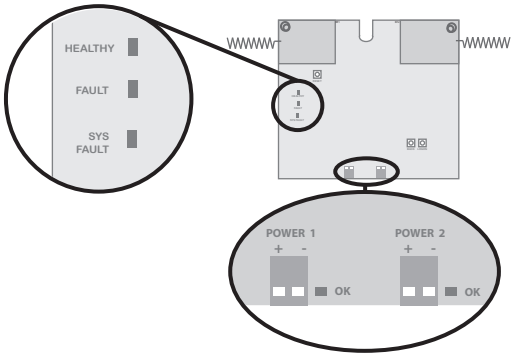


Figure 7

Configuration

The RCC's programming and loop address are configured within the menu structure of the radio hub.

Refer to the Ziton radio hub programming manual *(TSD021)* for full programming details.

