Ziton Radio Hub - 4 Loop
Installation Guide

General

The Radio Hub is available under the following part numbers;

Part No	Variant Type	$C\,\epsilon$
ZPR868-H	Ziton Radio Hub - Four Loop c/w Wire Aerials	359-CPD-****
ZPR868-HS	Ziton Radio Hub - Four Loop c/w SMA Aerials	359-CPD-****

EN54-18:2005 Input/output device
EN54-25:2008 Component using RF links for fire detection and fire alarm systems for buildings

The address of the unit is set using the menu programming structure available on the Hub – see supplied programming manual for details. The installation must conform to BS5839:Part 1 (or applicable local codes). *This Radio Hub is suitable for indoor use only.* The loop cable must be connected to a control panel, complying to EN54-2, EN60950-1/2006 and SELV.

Loop Design

The Radio Hub is powered from the loop; the unit draws an average of 40mA. The current drawn from the Hub should be taken into consideration when calculating the total load of a Loop.
Note: The loop power supplied to the unit must not exceed 28V 1Amp.

Installation of the Radio Hub

Ensure that the Radio Hub is sited in accordance with the survey and design details.   The Radio Hub is required to be connected via glands to the relative Control Panel (CIE). The recommended minimum distance between Metal objects or other equipment from the aerial is 600mm. The recommended minimum distance to any other electrical equipment is 2 metres.

To allow access to the mounting points, remove the four corner covers and screws. Then remove the front plate. Housed inside the unit will be the following part:-

- 1 x 868MHz Radio Hub pcb complete with aerials.

Remove required cable access points for Loop wiring connections. DO NOT USE cable access points in the shaded area for Loop wiring. Access points in the shaded area should only be used when fitting remote aerials to the product. (See separate aerial installation guide for more information). Available cable access points are shown in Figure 1. Note: Aerials must be installed internally within a building.

Position the Radio Hub in the required location and mark the required fixing positions. These are shown in Figure 2.

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. Install the remaining two screws in the bottom left and right hand holes provided. Additional fixing positions are available if required in the top left and right hand holes provided.

The Radio Hub pcb can be removed for additional access to mounting points if required. Supplied within the Radio Hubs instruction pack is a locking Allen key, which can be utilised on radio devices. See device installation guides for details.
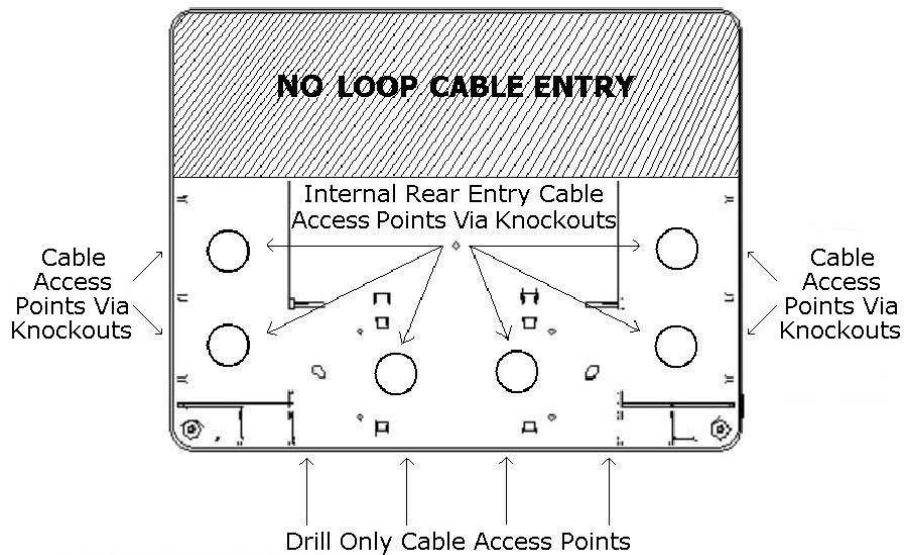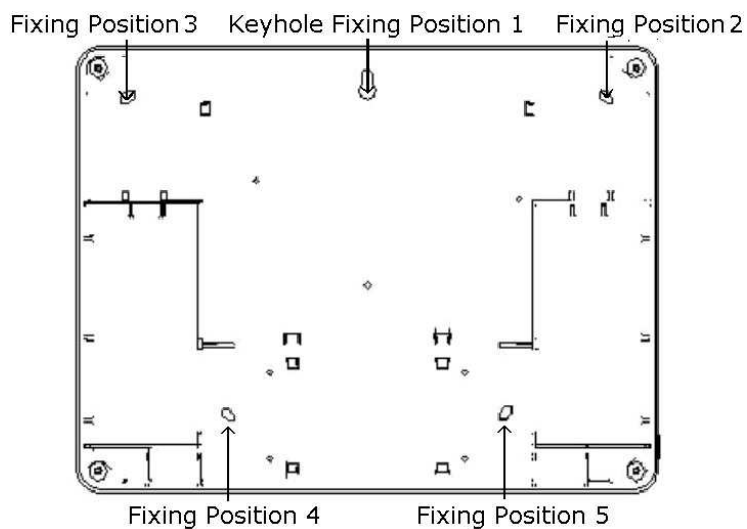
Figure 1

Figure 2

Wiring

The Radio Hub has up to four separate sets of Loop connections: Loop IN - , +, and Loop OUT -, + for each available Loop. The connections are accessed by removing the front plate of the Radio Hub. The cable is to be passed through the access points provided. See Figure 3 for connection diagram.
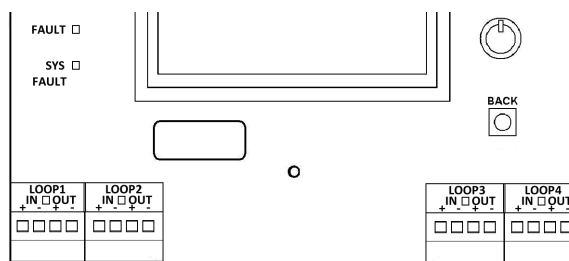

Figure 3

Functional Testing

When polled by a ZP compatible panel, the Radio Hub, in its normal condition will return the following analogue values.

Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6
149	181	244	N/A	090	244