



Ziton Loop Interface Module Installation Guide

General

The Ziton Loop Interface Module is available under the following part number;

Part No	Variant Type	CE
ZPR868	Ziton Loop Interface	0359-CPD-XXXX
ZPR868S	Ziton Loop Interface c/w Remote Aerial Facility	0359-CPD-XXXX, 0359-CPD-XXXX & 0359-CPD-XXXX

The address of the unit is set using the onboard 8 way switches – see supplied table. The installation must conform to BS5839:Part 1 (or applicable local codes). *This Ziton Loop Interface Module is suitable for indoor use only.* The modules isolator has been tested as per Isolator Test Specification sheet EMS-550:2011 issue 1.3.

Loop Design.

The Ziton Loop Interface Module is powered from the loop; the unit draws 17mA. A maximum of two Ziton Loop Interface Modules can be connected to a loop. The current drawn from the module should be taken into consideration when calculating the total load of a Loop.

Address Setting.

It is recommended that the loop address number is allocated prior to the unit being installed. The address number is set using the onboard 8 way switch. Available selections are shown in the Table below;

DIL switch setting		DIL switch setting		DIL switch setting		DIL switch setting		DIL switch setting	
addr	1.....8	addr	1.....8	addr	1.....8	addr	1.....8	addr	1.....8
1	10000000	11	11010000	21	10101000	31	11111000	41	10010100
2	01000000	12	00110000	22	01101000	32	00000100	42	01010100
3	11000000	13	10110000	23	11101000	33	10000100	43	11010100
4	00100000	14	01110000	24	00011000	34	01000100	44	00110100
5	10100000	15	11110000	25	10011000	35	11000100	45	10110100
6	01100000	16	00001000	26	01011000	36	00100100	46	01110100
7	11100000	17	10001000	27	11011000	37	10100100	47	11110100
8	00010000	18	01001000	28	00111000	38	01100100	48	00001100
9	10010000	19	11001000	29	10111000	39	11100100	49	10001100
10	01010000	20	00101000	30	01111000	40	00010100	50	01001100
51	11001100	61	10111100	71	11100010	81	10001010	91	11011010
52	00101100	62	01111100	72	00010010	82	01001010	92	00111010
53	10101100	63	11111100	73	10010010	83	11001010	93	10111010
54	01101100	64	00000010	74	01010010	84	00101010	94	01111010
55	11101100	65	10000010	75	11010010	85	10101010	95	11111010
56	00011100	66	01000010	76	00110010	86	01101010	96	00000110
57	10011100	67	11000010	77	10110010	87	11101010	97	10000110
58	01011100	68	00100010	78	01110010	88	00011010	98	01000110
59	11011100	69	10100010	79	11110010	89	10011010	99	11000110
60	00111100	70	01100010	80	00001010	90	01011010	100	00100110
101	10100110	106	01010110	111	11110110	116	00101110	122	01011110
102	01100110	107	11010110	112	00001110	117	10101110	123	11011110
103	11100110	108	00110110	113	10001110	118	01101110	124	00111110
104	00010110	109	10110110	114	01001110	119	11101110	125	10111110
105	10010110	110	01110110	115	11001110	120	00011110	126	01111110
						121	10011110	127	11111110

Installation of Ziton Loop Interface Module.

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

To allow access to the mounting points, remove the four corner covers and screws. Removing the front plate will expose the Ziton Loop Interface pcb.

Care must be taken to ensure the interface pcb is not damaged in the installation process. See the 'Removing/Inserting the Ziton Loop Interface pcb' section for more details.

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

Remove required cable entry knockouts for Loop In & Out 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.

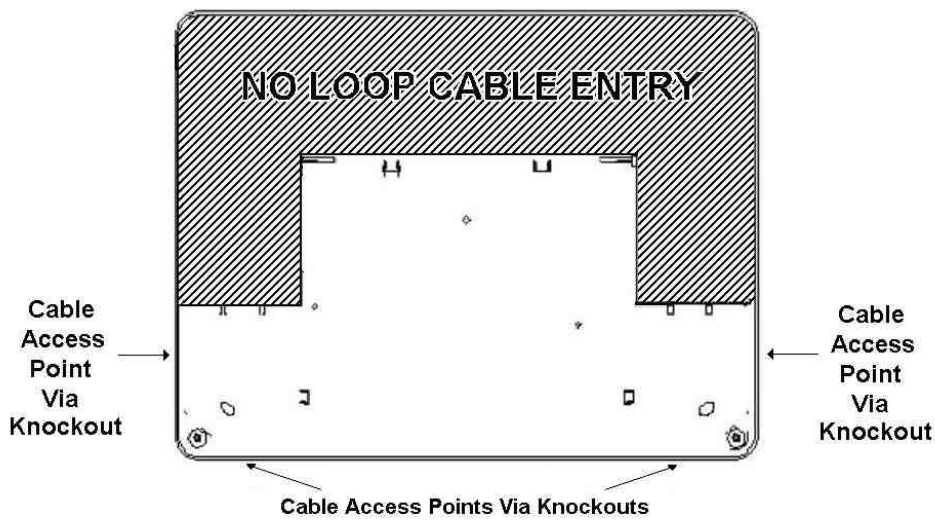


Figure 1

Position the Ziton Loop Interface in the required location and mark the four fixing positions. These are shown in Figure 2.

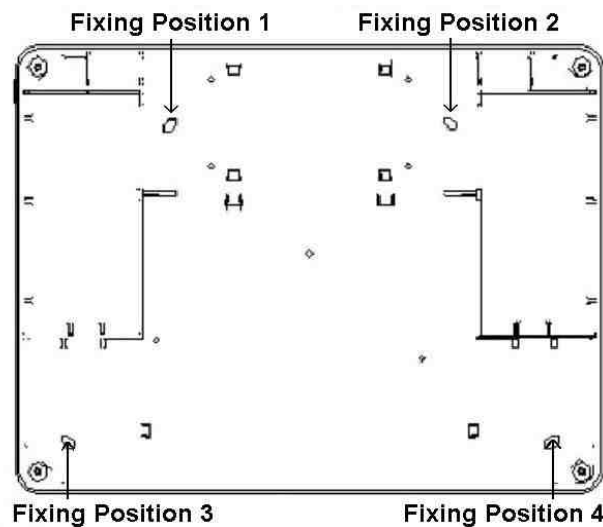


Figure 2

Using suitable screws and fixings, install the fixing positions 1 and 2. Ensure the screw does not protrude to far from the wall therefore a secure mounting can be achieved. Install the remaining two screws in fixing positions 3 and 4.

The Ziton Loop Interface pcb can be removed for additional access to mounting points if required. (See Removing/Inserting the Ziton Loop Interface pcb section for more details).

Removing/Inserting the Ziton Loop Interface pcb.

In order to remove the Ziton Loop Interface pcb, firstly release the bottom two retaining clips (shown in Figure 3), by gently easing them upwards. This will allow the bottom of the pcb to be freed. Release the top two retaining clips (again shown in Figure 3), by gently easing them upwards. This will release the pcb. Ensure care is taken to ensure the aerials are freed from their retaining slots whilst elevating the pcb.

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

Note: Care must be taken when removing the pcb not to damage the pcb and its aerials.

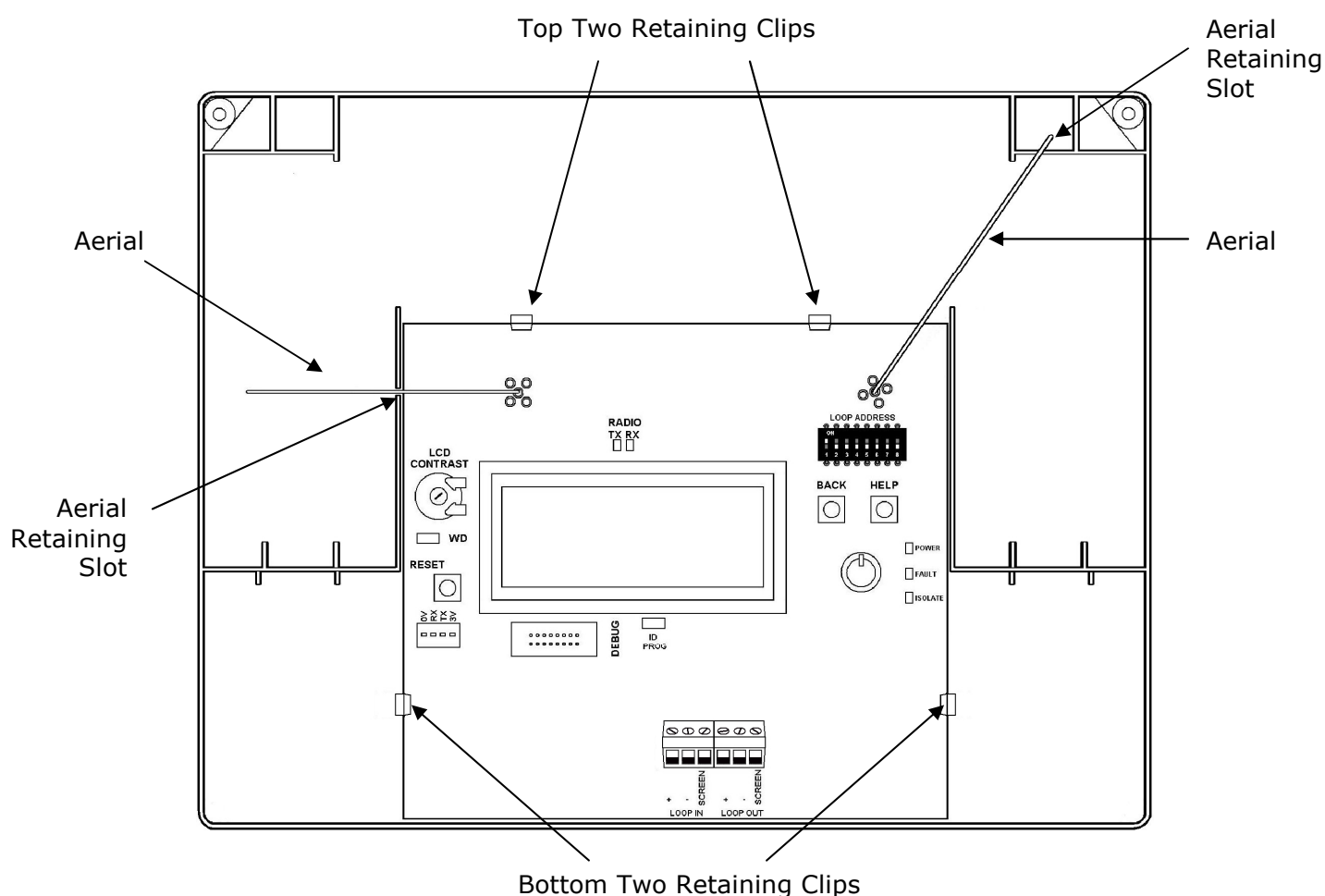


Figure 3

To re-insert the Ziton Loop Interface pcb, firstly lower the pcb into place making sure that both aerials are correctly inserted into their Aerial Retaining Slots, whilst resting the pcb on top of the retaining clips (as previously shown in Figure 3).

Now the bottom two retaining clips (again previously shown in Figure 3) must be gently eased upwards. The bottom of the pcb will now drop into place. With the bottom of the pcb now in place, the top of the pcb can be fixed in to place by gently easing the retaining clips upwards.

The Ziton Loop Interface pcb should now be correctly affixed into position.

Wiring.

The Ziton Loop Interface Module has six connections: Loop IN; +, - and screen, and Loop OUT; +, - and screen. The connections are accessed by removing the front plate of the Interface Module. The cable is to be passed through the knockouts provided. See Figure 4 for connection diagram.

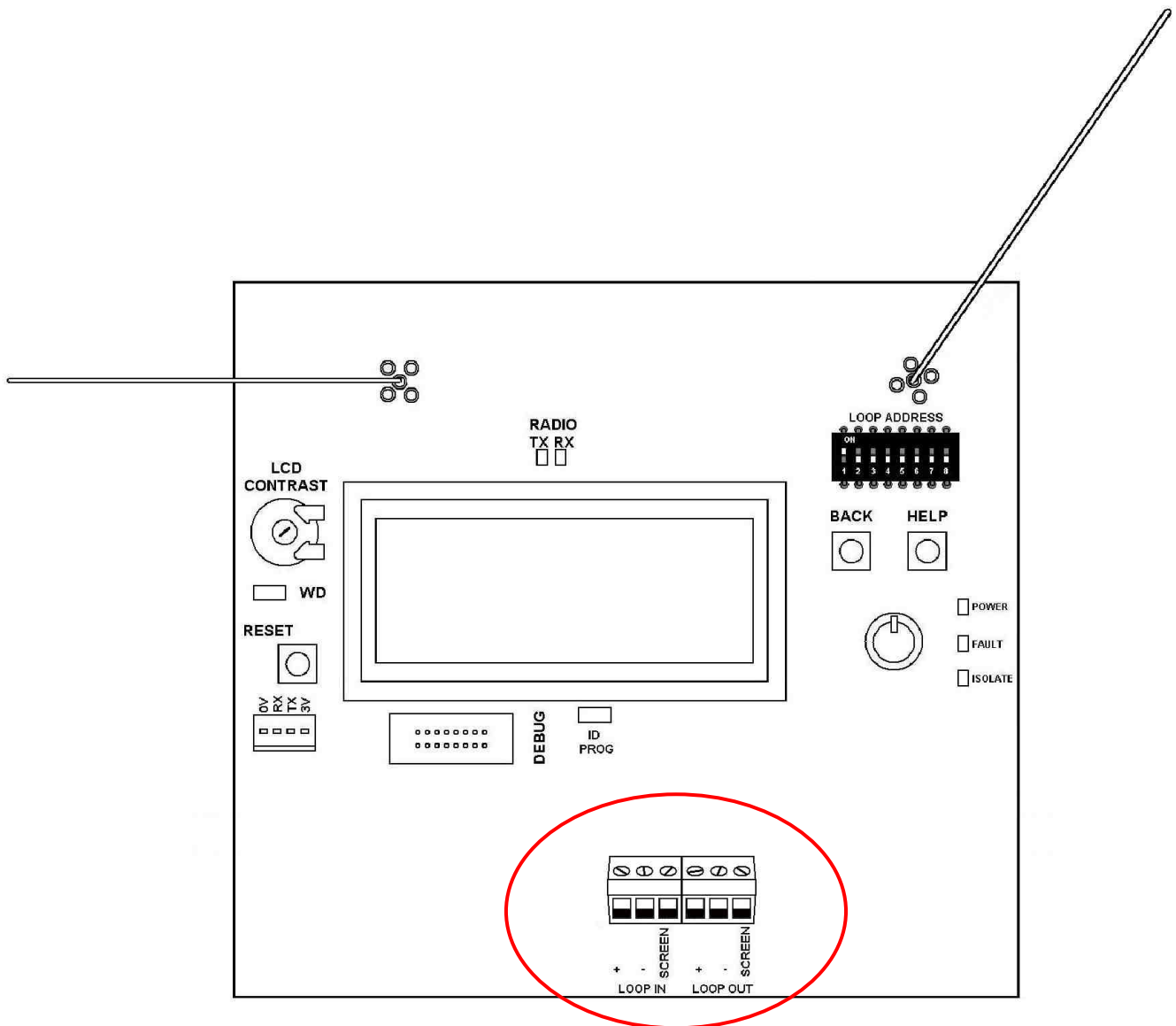


Figure 4

Note: The loop cable must be connected to a control panel approved to EN54-2, EN60950-1:2006. The loop power must be supplied from an EN60950-1:2006 approved power source with a SELV, Limited power output and must not exceed 24V, 1A.

Functional Testing.

When polled by a compatible panel, the Ziton Loop Interface Module, in its normal condition will return analogue values of 90 (slot 5) and 244 (slot 6).