

Installation and Commissioning Procedure

A1397 - 4 Way Alarm Interface

This manual is divided into two sections:

1. With the A1397 triggered via a Multiloop control panel
2. With the A1397 triggered from conventional switched 0v inputs

1) MULTILOOP INSTALLATION PROCEDURE

- a) Link LK1 to the 0v position by using a jumper link
- b) Set switches SW-1 and SW-2 to the ON position

NOTE:

SW1-1 determines the A1397 response to Multiloop output data (DOUT) and if it is in an OFF position the A1397 will ignore the data sent from the Multiloop control panel, SW1-2 determines the Multiloop control panel response to fault data from the A1397 (DIN) and if it is in an OFF position the fault data will not be sent to the Multiloop control panel.

- c) Determines which 4 input/output numbers are appropriate for the A1397 and set switches SW1-3 and SW1-4 accordingly:

SW1-4	SW1-3	BANK	I/O CARD Circuit No's
OFF	OFF	0	1 to 4
OFF	ON	1	5 to 8
ON	OFF	2	9 to 12
ON	ON	3	13 to 16

- d) Determine the required alarm mode of operation for all circuits and set switches SW2-1, SW2-2, SW2-3 and SW2-4 accordingly:

SW2-1	controls	Alarm circuit 1
SW2-2	controls	Alarm circuit 2
SW2-3	controls	Alarm circuit 3
SW2-4	controls	Alarm circuit 4

Any switch in an OFF position will give a steady alarm condition (if the variable resistor is set to the minimum - see (e) below)

Any switch in an ON position will give a pulsed alarm condition.

25 turn variable resistors VR1, VR2, VR3 and VR4 control a time delay on alarm circuits 1 to 4 respectively, by adjusting these variable resistors the following alarm response will occur:

Variable resistor set to minimum (fully anti-clockwise):

Steady alarm response

Variable resistor adjusted:

Gives a pulsed alarm response until the time delay has expired and then a steady alarm response afterwards

The time delay is adjustable between 0 and approximately 1 hour

- f) Ensure the Multiloop control panel is powered down and connect the A1397 board to the Multiloop control panel as follows:

Multiloop	A1397
DIN	DIN
DOUT	DOUT
CLK	CLK
COM	COM (this connection should only be made if a separate power supply is being used for the A1397 board)

Connect supply lines +5 volts, +24 volts and 0 volts to the terminals on the A1397 board.

NOTE: The A1397 board must be mounted adjacent to the Multiloop control panel.

- g) Connect the A1397 alarm circuit terminals to the field equipment and test each alarm circuit to ensure that the circuit is giving the required response.

2) CONVENTIONAL INPUT INSTALLATION PROCEDURE

- a) Link LK1 to the 5v position by using a jumper

- link
- b) Remove U3 from the A1397 board
 - c) Determine the required alarm mode of operation for all circuits and set switches SW2-1, SW2-2, SW2-3 and SW2-4 accordingly:

SW2-1	controls	Alarm circuit 1
SW2-2	controls	Alarm circuit 2
SW2-3	controls	Alarm circuit 3
SW2-4	controls	Alarm circuit 4

Any switch in an OFF position will give a steady alarm condition (if the variable resistor is set to the minimum - see (d) below)

Any switch in an ON position will give a pulsed alarm condition.

- d) 25 turn variable resistor VR1, VR2, VR3, VR4 control a time delay on alarm circuits 1 to 4 respectively, by adjusting these variable resistors the following alarm responses will occur:

Variable resistor set to minimum (fully anti-clockwise):

Steady alarm response

Variable resistor adjusted:

Gives a pulsed alarm response until the time delay has expired and then a steady alarm response afterwards

The time delay is adjustable between 0 and approximately 1 hour

- e) Connect supply lines +5 volts, +24 volts and 0 volts to the terminals on the A1397 board.
- f) Connect the A1397 alarm circuit terminals to the field equipment and test each alarm circuit to ensure that the circuit is giving the required response.
- g) Connect one wire of one of the alarm output circuits from the conventional control panel through the common fault relay terminals on the A1397 board.
- h) Connect the alarm trigger inputs to the A1397 board and test each alarm circuit to ensure correct alarm operation.