

## 2-Channel Alarm Annunciator

### Features



- 0-10Vdc, 4-20mA or VFC Inputs
- Green & red LED's for alarm ok/alarm indication
- Audible alarm mute button

### Specification

Input type:	0-10Vdc	0-20mA	Relay
Setting range:	0.1 - 9.9Vdc	0.2 - 19.8mA	N/A
Alarm repeatability:	0.1Vdc	0.2mA	100%
Hysteresis (peak):	0.3Vdc	0.6mA	98%
Relay output	6A @ 240Vac SPCO		
Alarm delay time	5 to 45 sec.		
Buzzer output	85Db @ 0.1 meter		
LED indication:			
Green	= OK		
Flashing Red	= Alarm		
Power supply	24Vac/dc ( $\pm 15\%$ )		
Power consumption	1VA (plus transmitter power)		
Electrical connections	Terminals for 0.5-2.5mm <sup>2</sup> cable		
Ambient range	-10 to +40°C		
Housing:			
Type	Flush mtg. plate (6mm profile)		
Dimensions	145 x 85 x 9mm (24mm overall)		
Country of origin	UK		

### Product Codes

#### UI-AA2-F

2-Channel alarm annunciator

## Technical Overview

The UI-AA2-F is used in conjunction with 1 or 2 0-10Vdc, 4-20mA or VFC inputs, to provide a low cost local audible and visual alarm facilities. Alarm threshold and time delay are adjustable.

On detection of an alarm condition, a buzzer is triggered and the alarm LED comes on. The alarm mute button enables the audible alarm to be muted at any time. The visual alarm will not reset until the monitored parameter returns to within its desired range.

## Installation

1. The UI-AA2-F can be powered from a grounded 24Vac supply or a 24Vdc supply.
2. The UI-AA2-F is designed to flush mount into a sinking box or switch pattress. Check that the unit fits the sinking box chosen with sufficient space for the wiring behind. Terminate the cores as required.
3. Select the appropriate input mode by moving the jumpers as necessary.

Ch1	4-20mA	0-10Vdc	VFC
J5	On*	Off	Off
J2	On	Off	Off
J4	On	Off	Off

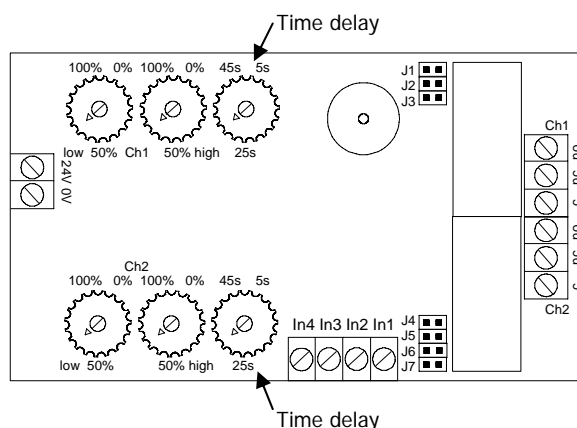
Ch2	4-20mA	0-10Vdc	VFC
J7	On*	Off	Off
J1	On	Off	Off
J6	On	Off	Off

\* J5 and J7 should be OFF if the unit is to be used in a current loop with another device such as a BMS controller or display.

4. Select whether the audible alarm is active or not by moving the jumper on J3. ON enables the alarm buzzer, OFF disables it.
5. Apply power and check correct operation of the unit by changing the input status/signal levels. Adjust the pots to achieve the desired alarm thresholds and delays. For relay input set the alarm threshold pots as shown below.

Relay input	Threshold Pot	
	Low	High
N/O	25%	100%
N/C	25%	0%

## Connections



### Inputs:

In 1	Ch1 input
In 2	Ch1 loop through
In 3	Ch2 input
In 4	Ch2 loop through
24V	24Vac/dc
0V	0V

### Outputs:

Ch1		Ch2	
c	Common	c	Common
nc	Normally closed	nc	Normally closed
no	Normally open	no	Normally open

## Example alarm settings

### Low alarm 4Vdc

High potentiometer set to 100%

Low potentiometer set to 40%

The device will alarm when the input voltage falls below 4Vdc.

### High alarm 7Vdc

High potentiometer set to 70%

Low potentiometer set to 0%

The device will alarm when the input voltage is above 7Vdc.

### High/Low alarm 4-7Vdc

High potentiometer set to 70%

Low potentiometer set to 40%

The device will alarm when the input voltage is above 7Vdc, and falls below 4Vdc.

The time delay settings can be adjusted between 5 and 45 seconds. This allows a time period before the UI-AA2-F alarm switches on, preventing nuisance switching.

