



Features and Benefits

- Audible alarm mute button
- Audible alarm disable selectable by jumper placement
- Alarm relay output
- Green & red led's for alarm ok/alarm indication
- Adjustable input delay time to help avoid spurious alarms

Technical Overview

The UI-AA-1-F interface is used in conjunction with either 0-10Vdc, 4-20mA, VFC or 24Vac input's, to provide a low cost local audible and visual alarm facilities. Alarm threshold's 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 re-set until the monitored parameter returns to within its desired range.

Product Code

UI-AA1-F 1-Channel alarm annunciator

PLEASE NOTE

Terminal input connection changes from 05/06/2020. Please contact Sontay for products purchased before this date for connection clarification.

Specification

Input signals	0-10Vdc	4-20mA	Relay	24Vac
Setting range	0.1 to 9.9Vdc	0.2 to 19.8mA	N/A	N/A
Alarm repeat.	0.1Vdc	0.6mA	100%	>10Vac
Hysteresis	0.3Vdc	0.6mA	98%	14Vac
Alarm delay time (sec.)	5 to 35 seconds			
Relay output	5A @ 240Vac SPCO			
Buzzer output	85dB @ 0.1 meter			
LED indication:				
Green	OK			
Red	Alarm			
Power supply	24Vac/dc (±15%)			
Power consumption	1VA (plus transmitter power)			
Electrical connections	Terminals for 0.5-2.5mm ² cable			
Ambient range	-10 to +40°C			
Housing type	Flush mtg. plate			
Dimensions	85 x 85 x 9mm			
Country of origin	UK			
Conformity	EMC, LVD, CE & UKCA Marked			

WEEE Directive:



At the end of the products useful life please dispose as per the local regulations. Do not dispose of with normal household waste. Do not burn.



Installation



Antistatic precautions must be observed when handling these sensors. The PCB contains circuitry that can be damaged by static discharge.

1. The UI-AA-1-F can be powered from a grounded 24Vac supply or a 24Vdc supply.
2. The UI-AA-1-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.
4. Select whether the audible alarm is active or not by moving the jumper on J4. 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.

Jumper Settings

UI-AA-1-F:

Mode	0-10Vdc	4-20mA	VFC	24Vac
J1	Off	On	Off	Off
J2	Off	On	Off	Off
J3	On	On*	On	On
J5	Off	Off	Off	On

* J3 should be OFF if the unit is to be used in a current loop with another device such as a BEMS controller or display.

Potentiometer Settings

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

24Vac input	Threshold Pot	
	Low	High
N/O	0%	50%
N/C	50%	100%

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.

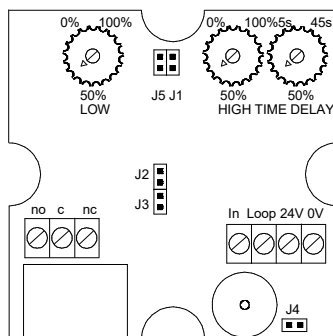
Jumper Settings & Options

Inputs:

IN Input signal
LOOP Loop through
24V 24Vac/dc
0V 0V

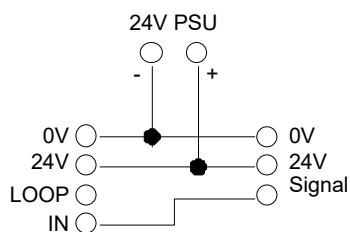
Output:

c Common
nc Normally closed
no Normally open

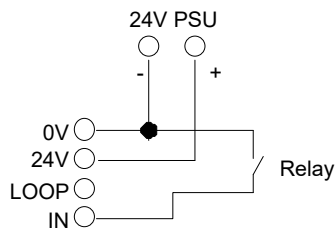


Connection Examples

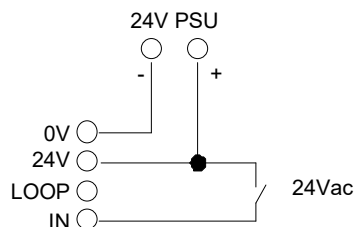
Voltage/current input:



Relay input:



24Vac input:



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