

# SYNCRO-KAU2017 Ancillary Control Module Configuration Manual

Australia Version - Rev 2.0 - Feb 2014

## 1 General

The Incite Syncro ancillary control module (ACM) has been designed to enable ease of interface to building services providing manual control and indication in an installation.

The ACM contains 4 push button controls, 8 indicators, and 3 clean contact relays. The unit connects to the Syncro panel by 4 wires; 2 for power and 2 for RS485 communications.



Button and LED allocations

## **2 Operation:**

The ACM manual controls will only operate when the enable keyswitch on the Syncro panel is in the enable position.

#### 2.1 Buttons:

Each button can operate as either a momentary or Push ON / Push OFF (Toggle) by the setting of a dip-switch.

Setting dip-switch 1 to the ON position will make button 1 function as a toggle, while setting dipswitch 1 to the OFF position will make button 1 function as a momentary. Dip switch 2 configures Push Button 2, etc.

When a button is set to toggle operation, the LED nearest the button indicates whether the button is in the ON or OFF state. The LED is not available to be individually programmed by Cause and Effect and will ignore any Cause and Effect operations placed on it. Button 1 is associated with LED 5, Button 2 is associated with LED 6, etc.



When a button is set to momentary operation, the LED nearest the button is available to be individually programmed by Cause and Effect.

#### 2.2 LEDs:

Each LED can be individually programmed to operate via Cause and Effect programming in the Syncro fire panel, with the exceptions listed in section 2.1 above.

### **3** Configuration:

#### 3.1 SW8 Unit address

This is addressed in binary, with each switch representing a number as follows

Switch	Value
SW8.1	1
SW8.2	2
SW8.3	4
SW8.4	8
SW8.5	16
SW8.6	Jacking Pump Monitoring
	Mode

For example: to specify address 14, switches 2, 3, and 4 would be turned on (2+4+8 = 14)

If all addresses switches are turned off, the unit will not respond to any communications from the syncro panel.

#### 3.2 Push Button Type

Each button can be configured to be either momentary or toggle ON and OFF.

Switch 7 provides this configuration with

Switch 7.1 - Button 1 configuration

Switch 7.2 - Button 2 configuration

Switch 7.3 - Button 3 configuration

Switch 7.4 - Button 4 configuration.

Switch	Function	LED C&E availability
1 Off	Button 1 Momentary	LED5 available
1 On	Button 1Toggle On/Off	LED5 unavailable
2 Off	Button 2 Momentary	LED6 available
2 On	Button 2Toggle On/Off	LED6 unavailable
3 Off	Button 3 Momentary	LED7 available
3 On	Button 3Toggle On/Off	LED7 unavailable
4 Off	Button 4 Momentary	LED8 available
4 On	Button 4Toggle On/Off	LED8 unavailable

## 4 Jacking Pump Monitoring Mode

This special configuration is invoked by switching on Address Switch 6.

In this mode, LED1, LED5, and Button 1 are reserved for use in the following manner.

LED1 should be turned on through cause and effect from a jacking pump input. This input should activate whenever the jacking pump is running, and is used to internally start a 7 day timer. In the event that this input is activated as second time during the 7 day period, LED 5 will activate and the I/O Channel 3 input to the Syncro is used to signal a fault.

The physical Button 1 is used to reset the timer and LEDs when pressed and the panel is in Access Level 2.



Jacking Pump Monitoring Mode

## 5 Syncro Configuration

#### 5.1 General

The ACM appears to the Syncro AS panel as a standard I/O module, but with predefined input and output functions. The Syncro AS panel must be programmed with the predefined I/O in order for the ACM to process the incoming events and act accordingly and to allow activation of the input and output devices in the field.

I/O	Function	Syncro Input or
Channel		Output
1	Relay 1	Output
2	Access Level 2	Output
3	Button 1 of Jacking Pump Fault (See	Input
	Note)	
4	Button 2	Input
5	Button 3	Input
6	Button 4	Input
7	LED1 or Jacking Pump Input (See	Output
	Note)	
8	LED2	Output
9	LED3	Output
10	LED4	Output
11	LED5 or Jacking Pump Fault (See	Output
	Note)	
12	LED6	Output
13	LED7	Output
14	LED8	Output
15	Relay 2	Output
16	Relay 3	Output

The I/O functions are shown below.

Note: Jacking pump monitoring mode is invoked by turning on Address Switch 6. In this mode, I/O Channel 7 monitors the pump run. LED 1 and 5 shows the status, and I/O Channel 3 indicates a Jacking Pump Fault

	1.00	Nouule	Seangs		
0 Module					
lame 1/0 Mod	ule		Address	2 🔻	]
hannel I/O   Ch	annels 1	-8 Chann	els 9 - 16		
Channel	Inputs	Outputs	Channel	Inputs	Outputs
I/O Channel 1	C	¢	I/O Channel 9	С	ē
1/0 Channel 2	С	œ	1/0 Channel 10	С	æ
1/0 Channel 3	۲	С	1/0 Channel 11	С	ſ
1/0 Channel 4	۲	С	1/0 Channel 12	С	ſ
1/0 Channel 5	۲	С	1/0 Channel 13	С	œ
1/0 Channel 6	۲	С	I/O Channel 14	С	G
1/0 Channel 7	С	ē	1/0 Channel 15	С	œ
	0	G	1/0 Channel 16	C	æ

Each channel will be dealt with in the next section in detail.

## 5.2 Channel Setup.

Item	Name	Type	Zone	Action	Action Msg	Input Delay	Latch	Evac	Def. Ring	Silenceable	Delay Stage 1	Delay Stage 2
🚽 01 - Channel	Relay 1	Output	None					۶	No	<u>No</u>	0.0 Minute(s)	0.0 Minute(s)
🚽 02 - Channel	Access Level 2	Output	None					8	No	8	0.0 Minute(s)	0.0 Minute(s)
D3 - Channel	Button 1	Input	None	Transparent	<none></none>	0 Seconds	2					
D4 - Channel	Button 2	Input	None	Transparent	<none></none>	0 Seconds	2					
DS - Channel	Button 3	Input	None	Transparent	<none></none>	0 Seconds	2					
🔶 06 - Channel	Button 4	Input	None	Transparent	<none></none>	0 Seconds	8					
🚽 07 - Channel	LED 1	Output	None					8	Yes	No	0.0 Minute(s)	0.0 Minute(s)
🚽 08 - Channel	LED 2	Output	None					8	No	No	0.0 Minute(s)	0.0 Minute(s)
🎝 09 - Channel	LED 3	Output	None					8	No	No	0.0 Minute(s)	0.0 Minute(s)
🚽 10 - Channel	LED 4	Output	None					8	No	8	0.0 Minute(s)	0.0 Minute(s)
🚽 11 - Channel	LED 5	Output	None					8	No	No	0.0 Minute(s)	0.0 Minute(s)
🚽 12 - Channel	LED 6	Output	None					8	No	No	0.0 Minute(s)	0.0 Minute(s)
🚽 13 - Channel	LED 7	Output	None					8	No	No	0.0 Minute(s)	0.0 Minute(s)
🚽 14 - Channel	LED 8	Output	None					8	No	<b>No</b>	0.0 Minute(s)	0.0 Minute(s)
🚽 15 - Channel	Relay 2	Output	None					8	No	٥ <mark>۷</mark>	0.0 Minute(s)	0.0 Minute(s)
🚽 16 - Channel	Relay 3	Output	None					8	No	<mark>0</mark> 0	0.0 Minute(s)	0.0 Minute(s)

Channel 1	Relay 1.
Description	This point controls Relay 1.
Туре	Output
Action	If no action or Cause and Effects are programmed for this point, Relay 1 will follow the General Disablement LED.
Cause	
Operation	
Effect	

Channel 2	Access Level 2.
Description	This point automatically goes active whenever the
	Syncro enable keyswitch is turned to the enable
	position, and is used internally in the ACM.
Туре	OUTPUT
Action	NONE - DO NOT PLACE ANY ACTIONS AGAINST THIS
	CHANNEL
Cause	DO NOT PLACE ANY C&E AGAINST THIS CHANNEL
Operation	
Effect	

Channel 3	Button 1.
Description	This point goes active when button 1 is active.
Туре	Input
Action	(set this to Fault when in Jacking Pump Mode)
Cause	I/O Channel 3
Operation	OR
Effect	Any

Channel 4	Button 2
Description	This point goes active when button 2 is active.
Туре	Input
Action	
Cause	I/O Channel 4
Operation	OR
Effect	Any

Channel 5	Button 3
Description	This point goes active when button 3 is active.
Туре	Input
Action	
Cause	I/O Channel 5
Operation	OR
Effect	Any

Channel 6	Button 4
Description	This point goes active when button 4 is active.
Туре	Input
Action	
Cause	I/O Channel 6
Operation	OR
Effect	Any

Channel 7	LED1.
Description	This point is controlled by C&E or Action.
Туре	Output
Action	
Cause	Any (From the jacking pump when in Jacking Pump
	Monitoring Mode)
Operation	Any
Effect	I/O Channel 7

Channel 8	LED2.
Description	This point is controlled by C&E or Action.
Туре	Output
Action	
Cause	Any
Operation	Any
Effect	I/O Channel 8

Channel 9	LED3.
Description	This point is controlled by C&E or Action.
Туре	Output
Action	
Cause	Any
Operation	Any
Effect	I/O Channel 9

Channel 10	LED4.
Description	This point is controlled by C&E or Action.
Туре	Output
Action	
Cause	Any
Operation	Any
Effect	I/O Channel 10

Channel 11	LED5.
Description	In Button 1 toggle mode, this LED signals that button 1 is ON. In momentary mode, this point is controlled by C&E or Action. In Jacking pump monitoring mode, this signals a jacking pump fault.
Туре	Output
Action	
Cause	Any
Operation	Any
Effect	I/O Channel 11

Channel 12	LED6.
Description	In Button 2 toggle mode, this LED signals that button
	2 is ON. In momentary mode, this point is
	controlled by C&E or Action.
Туре	Output
Action	
Cause	Any
Operation	Any
Effect	I/O Channel 12

Channel 13	LED7.
Description	In Button 3 toggle mode, this LED signals that button
	3 is ON. In momentary mode, this point is
	controlled by C&E or Action.
Туре	Output
Action	
Cause	Any
Operation	Any
Effect	I/O Channel 13

Channel 14	LED8.
Description	In Button 4 toggle mode, this LED signals that button
	4 is ON. In momentary mode, this point is
	controlled by C&E or Action.
Туре	Output
Action	
Cause	Any
Operation	Any
Effect	I/O Channel 14

Channel 15	Relay 2
Description	This point controls Relay 2.
Туре	Output
Action	
Cause	Any
Operation	Any
Effect	I/O Channel 15

Channel 16	Relay 3.
Description	This point controls Relay 3.
Туре	Output
Action	
Cause	Any
Operation	Any
Effect	I/O Channel 16

# 6 Configuration Diagram:



C&E = Cause and effect script.



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