

# Arrowhead Alarm Products

## ELAN Documentation

### OVERVIEW –

1.0

- THIS DRIVER IS SPECIFICALLY DESIGNED FOR THE ESL-2, ESL, ELITE S & ELITE S LITE.
- IN ORDER TO COMMUNICATE WITH THE ELITE ALARM, YOU WILL REQUIRE BOTH THE ELAN INTERFACE AND THE ESL RS232-BD.
- PROGRAMMING THE ALARM IS REQUIRED FOR FULL FUNCTIONALITY OF THE ELAN INTERFACE.
- ONCE COMMUNICATION AND PROGRAMMING IS COMPLETE, THE ALARM AND ELAN WILL HAVE FULL 2 WAY COMMUNICATION ALLOWING FOR BOTH LOCAL AND REMOTE MONITORING OF THE ALARM STATUS, LIVE ZONE STATUSES, REMOTE OUTPUT CONTROL, TROUBLE CODES AND ALARM NOTIFICATIONS.

### MINIMUM REQUIREMENTS –

1.1

- ESL-2, ESL, ELITE S & ELITE S LITE ALARM PANEL
- COMPATIBLE ELITE S KEYPAD
- RS232-BD – SERIAL INTERFACE FOR ESL
- ELAN INTERFACE
- ESL-2 ELAN DRIVERS (LATEST VERSION STORED [HERE](#))

### HARDWARE SETUP AND CONNECTIONS –

1.2

- CONNECT THE ESL-2 BOARD VIA THE KEYPAD BUS TO THE ESL-2 RS232BD.
- WIRE THE SERIAL TERMINAL FROM THE SERIAL INTERFACE USING A CAT5E/6 CABLE AND WIRE AS BELOW.
- **SET THE DIP SWITCHES ON THE RS232 BOARD TO: 1=ON 2=ON 3=ON 4=ON**

**NOTE:** WHEN COMMUNICATING WITH THE ESL-2 PANEL VIA RS232, THE DEFAULT ADDRESS IS **8**.

FUNCTION	CAT5/6 A	CAT5/6 B
GND	BLUE	BLUE
RX	WHITE/ BLUE	WHITE/ BLUE
TX	ORANGE	GREEN

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### ALARM PROGRAMMING –

2.0

THE FULL ESL-2 PROGRAMMING MANUAL CAN BE FOUND [HERE](#).

TO CONFIGURE THE ALARM PANEL CORRECTLY THERE ARE SEVERAL PROGRAMMING ADDRESSES THAT WILL NEED TO BE CHANGED:

**KEY;**

**P** = PROG KEY ON KEYPAD

**E** = ENTER KEY ON KEYPAD

**>** = NEXT ENTRY ON KEYPAD WITHOUT PRESSING ENTER.

1. SET KEYPAD 8 OUTPUT MASK TO THE REQUIRED OUTPUTS.  
**PROG > 82 > ENTER > 8 > ENTER > 9 (HOLD FOR 3 SECONDS) > ENTER**  
 THIS WILL ENABLE ALL OUTPUTS TO BE CONTROLLED VIA THE VIRTUAL KEYPAD, YOU SHOULD SEE NUMBERS 1-32 ON DISPLAY.
2. SET THE CONTROL BUTTON TO OUTPUT MASK FOR KEYPAD 8.  
**PROG > 83 > ENTER > 8 > ENTER > 9 (HOLD FOR 3 SECONDS) > ENTER**  
 THIS WILL ENABLE ALL OUTPUTS TO BE CONTROLLED VIA THE CONTROL FEATURE, YOU SHOULD SEE NUMBERS 1-8 ON DISPLAY.
3. Set the Output to be controlled while armed  
**Prog > 96 > Enter > 8 > Enter > 6 > Enter (on)**  
 This will set all outputs to be able to be controlled while armed OR disarmed. This is useful when you leave your house and want to operate doors/ lighting while the house is armed.
4. Set the Output to be controlled by ELAN system  
**Prog > 34 > Enter > [Output Number] > Enter > 7 > Enter**  
**E.G; P34E 4E 7E** (This will set output 4 to allow the ELAN interface to activate it).
5. User code programming (All user code configured on the ESL-2 will work on ELAN).  
**Prog > 1 > Enter > [user code slot] > Enter > [new user code] > Enter**  
**E.G; P1E 4E 4567E** (This will set user 4, to have the associated code of 4567).

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### **ADDING THE DRIVER – 3.0**

- OPEN THE ELAN CONFIGURATOR AND CLICK ON THE SECURITY TAB ON THE LEFT MENU.
- RIGHT CLICK ON "SECURITY PANELS" AND CLICK "ADD NEW DEVICE...".
- AT THE BOTTOM OF THE WINDOW SELECT "SEARCH FOLDER..." & SELECT THE FOLDER CONTAINING THE ESL\_ELAN.ERDV FILE.
- ONCE LOCATED CLICK OK.

### **ESTABLISH COMMUNICATION – 3.1**

ONCE THE ABOVE STEPS HAVE BEEN COMPLETED, THE STATUS INDICATOR WILL APPEAR RED ("INCOMPLETE CONFIG").

TO ESTABLISH COMMUNICATION, LOCATE THE "COMMUNICATION DEVICE" OPTION, AND SELECT "SERIAL PORT" AND PRESS "APPLY".

THE INDICATOR SHOULD CHANGE TO YELLOW TEMPORALLY AND THEN GREEN TO CONFIRM FULL 2 WAY COMMUNICATION.

### **ADDING ZONES – 3.2**

RIGHT CLICK ON THE "ZONES" TAB ON THE LEFT COLUMN AND SELECT "ADD NEW ZONE..." SELECT THE ZONE AND NAME IT ACCORDINGLY. REPEAT THIS FOR EACH ZONE BEING USED ON THE ESL-2 PANEL.

### **ZONE BYPASSING –**

THIS PANEL DOES SUPPORT REMOTE ZONE BYPASSING. TO ENABLE THIS, OPEN CONFIGURATOR THEN CLICK ON SECURITY. SELECT THE ESL-2 PANEL AND SELECT ZONES. EACH ZONE HAS INDIVIDUAL OPTIONS FOR WHETHER YOU WANT TO BE ABLE TO REMOTELY BYPASS THEM. TO ENABLE, SIMPLY CHANGE THE "ENABLE BYPASS" DROP DOWN TO "YES".

### **LIMITATIONS – 4.0**

THE ESL-2 PANEL IS ABLE TO CONTROL 2 AREAS ALL INDEPENDENT FROM EACH OTHER. IN THIS RELEASE OF THE DRIVER WE ARE ONLY SUPPORTING 1 AREA DUE TO A LIMITATION OF RS232 MESSAGES COMMUNICATED FROM THE ESL-2.

### **STILL NEED HELP? – 5.0**

CONTACT SUPPORT DETAILS;  
URGENT - (09)-414-0085 (OPTION 3)  
EMAIL – TECH@AAP.CO.NZ