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# **JVA Z14/Z12 Alpha Plus LCD Keypad Manual**



## 1. Using the Alpha Plus LCD Keypad

The LCD keypad has two LED's, Power and Arm, they act as follows:

- Power – On with Mains power, flashes on low battery.  
 Arm On when the energiser is armed (pulsing), flashes when in low power Mode.

All other indication is given via messages on the screen.

Whenever the keypad displays:

ALARM ZONE  
 FAULTED ZONE  
 Or SYSTEM TROUBLE

Pressing the [#] key will reveal more information, such as the name of the zone or the actual system trouble, like AC Fail.

## 2. Changing the Keypad Messages

You can change the messages and each of the 8 zone labels.

The Dealer Message displays when the system is on standby

Zone Labels display after the [#] key is pressed during alarm memory or faults.

The programmable Service Message is displayed during AC failure, fuse failure, communication failure, or low battery.

### KEYS USED FOR CHANGING MESSAGES:

[1]	[2] Character up	[3] not used	Emergency not used
[4] <- Cursor left	[5] Next Message	[6] -> Cursor right	Fire not used
[7]	[8] Character down	[9]	Panic not used
[*]	[0] Last Message	[#] Enter / Exit	Bypass not used

- To activate the keypad programming mode, enter the [Installer's Code] [\*] [0][1] [#]. Information may be entered into the keypad in the form of letters (upper and lower case), numbers (0 - 9), and 22 special symbols. All characters are displayed in the order: upper and lower case letters, numbers, and special symbols. The [Space] character precedes the letter A.
- To enter a Label, use the [2] key to scroll through the characters until you reach the desired character. If you scroll past the desired character, the [8] key may be used to scroll backwards. Note; the space character is before the A character (When A is displayed, press [8] to get a space).
- When the desired character is displayed, press the [6] key to move the cursor to the next character position. The [4] key moves the cursor to the left.
- When all characters have been entered, press the [#] key to enter the message and move to the next message position.
- Use the [0] key to move backward through the messages.

*NOTE: If you move to the next message using [5] instead of the [#] key you will lose any changes you made!*

- To change the keypad address, scroll through the messages until the keypad displays: "Keypad address \_" then change the value by pressing [2] (up) or [8] (down). Validate by pressing #.

### THE MESSAGE ORDER IS:

- SERVICE MESSAGE (Displayed under "SYSTEM TROUBLE")
- DEALER MESSAGE (Displayed under the standby message: "READY TO ARM")
- SOFT ZONE IDENTIFIERS (A, B, and C) (not used)
- HARDWIRED LOOP IDENTIFIERS (Zone 1 = Gate, Zone3 = Fence)
- KEYPAD ADDRESS (should be left at 1 for energisers with firmware older than 7v51)

### 3. To Exit Keypad Programming

When you have finished programming, press [\*] [#].

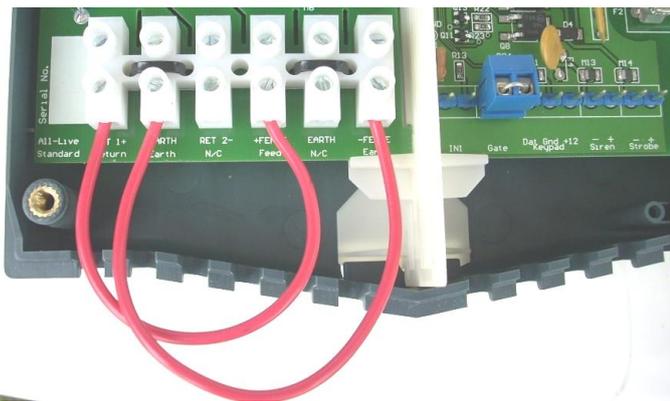
Note: The keypad will also exit the programming mode if you do not press any key within a five minute period.

### 4. Calibrating the voltage display

The PCB's will be factory calibrated and should not require adjustment for the life of the product. If, however, certain components are replaced during repair the unit may need recalibration. This includes the main processor chip.

#### PROCEDURE:

1. Connect 'FEED' and 'EARTH' to 'RETURN' and 'EARTH' as per picture below:



2. Plug in the keypad, power the unit and turn on the energiser using the key-switch.

#### Clearing old calibration using the keypad:

3. Type [Installer's Code] [\*] [0] [#] Enter programming mode
4. Type [9][8][0][0]# clear the return calibration
5. Type [9][9][0][0]# clear the feed calibration
6. Type [\*] [#]. Exit programming mode
7. Once the calibration is cleared, run the energiser and record the actual feed and return voltages, and those displayed on the LCD. The actual voltages must be higher than the displayed voltages for calibration to work.



8. Calculate the return calibration factor = (Actual Voltage / Displayed voltage \*100) – 100  
For example If after clearing the calibration the Actual fence voltage is 7.1 but the display reads 6.0 (as per the picture above) the factor is:

$$7.1 / 6 = 1.183$$

$$1.183 * 100 = 118.3$$

$$118.3 - 100 = 18.3 \text{ round up to } 18$$

For the RETURN voltage, the factor to enter is 18 (an increase of 18 percent).

Using the same process for the Feed voltage (above picture shows 5.9kV),

For the FEED voltage, the factor to enter would be 20.

*Entering new calibrations using the keypad (for our example)*

- 9. Type [Installer's Code] [\*] [0] [#] Enter programming mode
- 10. Type [9][8][1][8][#] Enter the return calibration
- 11. Type [9][9][2][0][#] Enter the feed calibration
- 12. Type [\*] [#]. Exit programming mode

**5. Summary of LCD Keypad Functions.**

Arm/Disarm	[Users PIN][#]	
Silence an alarm (Single zone system only)	[User PIN][#]	Note 1
Start Programming the Z14	[Installer PIN][*] [0] [#]	
Start Programming the Keypad	[Installer PIN][*] [0] [1] [#]	
Exit Programming	[*] [#]	
Arm All Zones (Multizone systems)	[User PIN][*][1][0][#]	Note 2
Arm Zone 1 or Master	[User PIN][*][1][1][#]	
Arm Zone 2 (2 Zone models only) or slave 2 etc.	[User PIN][*][1][2][#]	
Disarm All Zones	[User PIN][*][2][0][#]	
Disarm Zone 1 or Master	[User PIN][*][2][1][#]	
Disarm Zone 2 (2 Zone models only) or Slave 2 etc	[User PIN][*][2][2][#]	
Switch to low power mode (all zones)	[User PIN][*][4][1][#]	
Switch to high power mode (all zones)	[User PIN][*][4][2][#]	
To change the Keypad Messages to English	[*][3][1][#]	
To change the Keypad Messages to Spanish	[*][3][2][#] (not well supported yet)	
Audible Feedback Toggle	[*] [5] [1] [#]	
Chime Toggle	[*] [5] [3] [#]	- to be checked
Error Tones Toggle On/Off	[*] [5] [4] [#]	- to be checked
Backlight Toggle On/Off	[*] [8] [#]	
Display Keypad Model	[*] [9] [#]	
<b>To be added (these do not operate yet)</b>		
Clear Alarm memory	[*] [1] [#]	
Pre-warm toggle on/off	[*] [5] [2] [#]	
Siren test	[*] [6] [3] [#]	
Battery test	[*] [6] [4] [#]	
Reset Z14 controller	[*] [6] [8] [#]	
Emergency, Fire, Panic,	 Hold for 3 seconds.	

Note1: This was changed in version 7V5 of the firmware. Firmware version is shown on the LCD at power up.  
 Note2: The group arm and disarm codes were added in version 7V5 of the firmware.