

## Instruction Sheet

**Part Number:** AQ08001  
**Description:** Option Board - Extended Features  
**Compatibility:** ZENER 8000  
 ECODRIVE 8000  
**Kit Includes:** 1x Option Board  
 1x Insulation Sheet – Mylar  
 1x Screw (Nylon/Plastic)  
 1x Terminal Label

**Summary:**

This option board provides the following additional features:

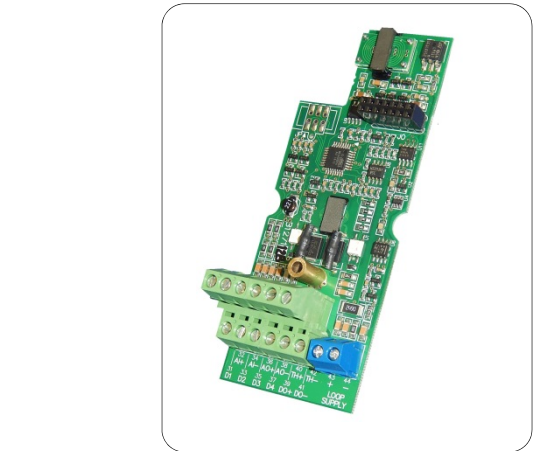
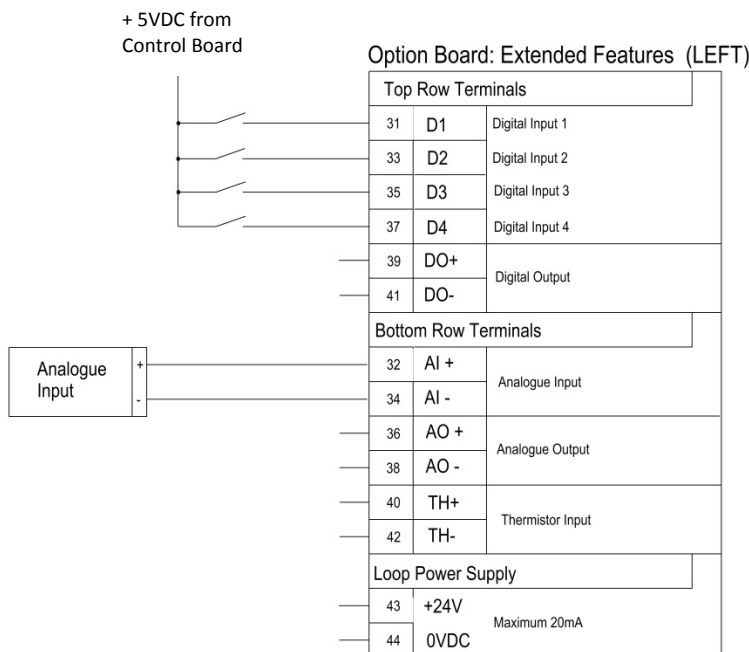
- Additional 4x Digital Inputs (programmable)
- Additional digital Output (programmable)
- Thermistor Input
- Additional Analogue Input (programmable)
- Analogue Output (programmable)
- 24VDC 20mA loop power supply for external transducer

A maximum of two (2) option boards can be fitted per drive, either Left or Right position. The preferred location is the left slot as this is commonly required with 'applications'.

**Terminals & Terminal Numbers:**

The terminal numbers are referenced in the menu to identify the inputs and outputs. Eg. AO (36,38) refers to Analogue Output terminals 36 & 38. When the Option board is in the right slot, a sticker (provided) must be attached with the correct terminal numbers.

**Terminal Layout / Wiring:**

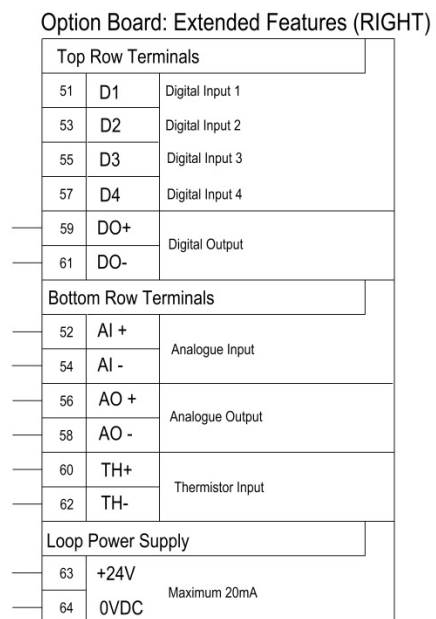


**Specification:**

- Digital Inputs:** 4x; 5VDC logic, programmable  
 Logic High: ~ >4VDC / Logic low: ~ <1V  
 (Max input voltage is 24VDC)
- Digital Output:** 1x; Solid State, programmable  
 Max 48VDC/30VAC 400mA
- Analogue Input:** 1x; Programmable signal type & zero/scaling and built-in comparator function
- Analogue Output:** 1x; Programmable signal type & zero/scaling
- Thermistor Input:** PTC type, Trip Resistance >3300 Ohms short circuit detection (<20 Ohms).
- Power supply:** 24DC 20mA Max for loop supply of transducer.

**Further Information:**

For detailed information on functionality and programming refer to the instruction manual for the ZENER 8000.



# Installation



There are hazardous voltages inside the ZENER 8000 whenever it is connected to an electrical supply and for some time afterwards.

Before touching anything inside the ZENER 8000 enclosure or other equipment connected to the terminals, disconnect all sources of electrical power, wait at least 11 minutes for capacitors within the ZENER 8000 to discharge to less than 50VDC and then ensure by measurement, that there are no hazardous voltages (AC or DC) present.

## All chassis (except CHA IP30)

### Steps:

1. Safely Isolate. Ensure all power sources have been removed for at least 11 minutes and remain that way for the rest of the installation.
2. Remove the front door, and remove screws/nuts securing the display assembly and remove.
3. Remove the screws securing the control board and remove.
4. Turn the control board over and plug the option board into the one of the available slots. The Left (looking from top side) should be used first.
5. Lay the insulation sheet on top of the exposed metalwork where the control board sits.
6. Remove the spacer where the option board now sits.
7. Reposition the control board assembly and fix into place. A plastic screw is provided where the option is fitted on the right side.
8. Refit covers and the ZENER 8000 is now ready to re-connect power.

## IP30 CHA Installation

### Steps:

1. Safely Isolate. Ensure all power sources have been removed for at least 11 minutes and remain that way for the rest of the installation.
2. Remove the plastic terminal cover and the screw (2) on the top side of the chassis must also be removed.
3. Remove the screws securing the control board and remove.
4. Remove the front screw securing the control board assembly in place and remove the control board assembly.
5. Turn the control board over and plug the option board into the one of the available slots. The Left (looking from top side) should be used first.
6. Lay the insulation sheet on top of the exposed metalwork where the control board sits.
7. Remove the spacer that where the option board now sits.
8. Reposition the control board assembly and fix into place. A plastic screw is provided where the option is fitted on the right side.
9. Refit covers and the ZENER 8000 is now ready to re-connect power.

