



# + / - 10VDC Isolated Analog Input Products Specifications and Installation Data

## 1 DESCRIPTION

The +/-10VDC Isolated Analog Input Module is compatible with GE Fanuc Field Control. It provides eight analog channels with a resolution of 12-bits (11 bits plus sign). Isolation levels are 400VDC, 1000VDC channel-to-channel and channel-to-ground. The module converts the voltage input signals into digital values (-10,000 to +10,000 normally), which can be accessed through communications with the Bus Interface Unit. These modules are physically housed in the standard Field Control I/O case, and are compatible with a variety of I/O bases, providing flexible termination options.

**NOTE:** For HE670ADC830, revision C and higher, hot swap capability is supported.

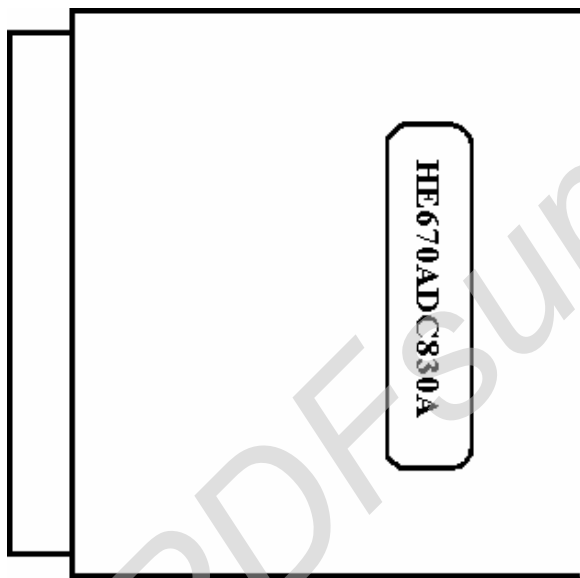


Figure 1 – Side View

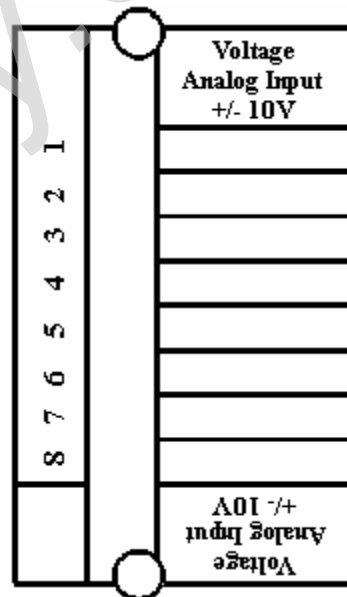


Figure 2 – Front View

## 2 SPECIFICATIONS

Power Consumption	130mA from backplane	Resolution (0 to +10) (-10 to +10)	12-bits 11-bits + sign
Number of Channels	8	Output Format	Set by BIU, Normally 10V = 10000 counts
Range	0 to +10VDC -10 to +10VDC Selectable by the BIU	Maximum error at 25°C	+/- 0.1% Full Scale
Channel –to– Channel Isolation	400VDC	Operating Temperature	0 to 75°C
Channel –to– Backplane Isolation	1000VDC	Relative Humidity	5% to 95%, non- condensing
Input Impedance	1 Mohm	Input Power	24VDC +/-10%

## 3 WIRING

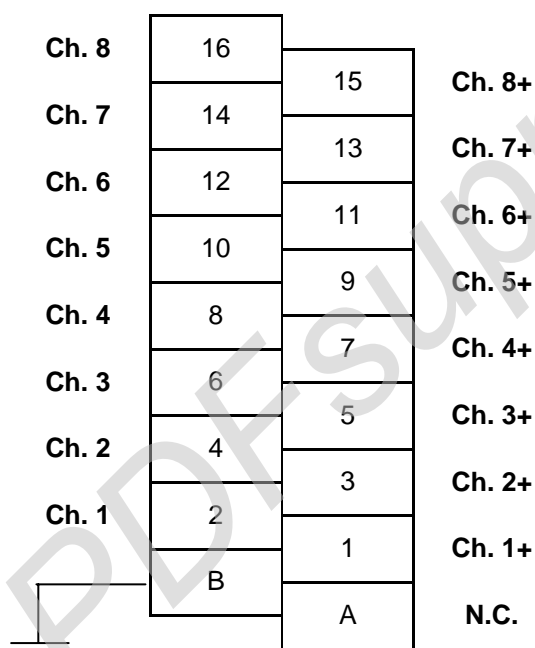


Figure 3 – I/O Terminal Block with Box Terminal

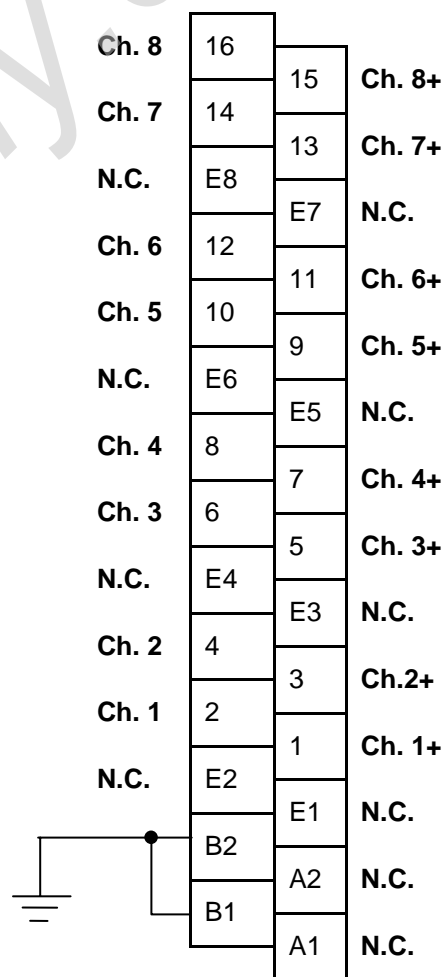


Figure 4 – I/O Terminal Block with Barrier Terminal

## 4 INSTALLATION

### 4.1 Keying Locations

The following keying locations must be used.

Keying Locations										
A	B	C	D	E	F	G	H	I	J	K
x			x			x				x

### 4.2 Installation Hints

The following installation hints need to be followed.

- a. Wiring needs to be routed in its own conduit.
- b. Shielded, twisted pair extension wiring offers best noise immunity.
- c. If shielded wiring is used, a good earth ground connection is critical. Connect all shield points to a good earth ground.

### 4.3 Safety

**WARNING:** Do not insert or remove a module during operation if there is a potential that temporary, incorrect data may result, which could cause hazardous or unexpected conditions.