+ / - 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.

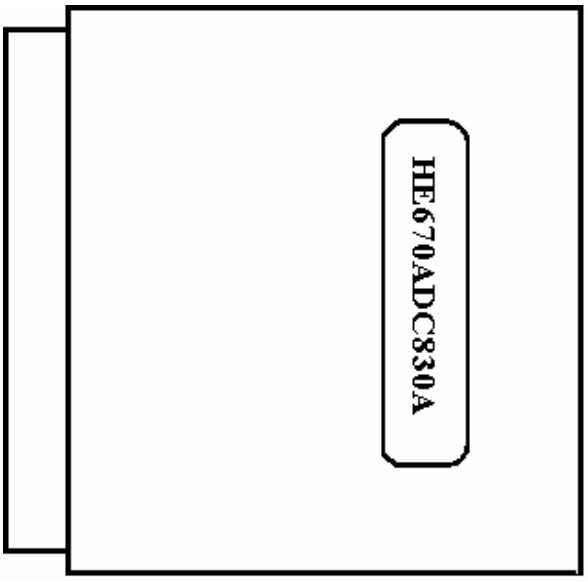

Figure 1 – Side View

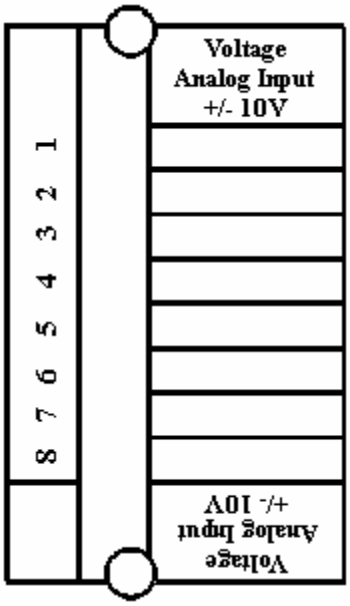

Figure 2 – Front View

2 SPECIFICATIONS

Table 1 – HE670ADC830 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

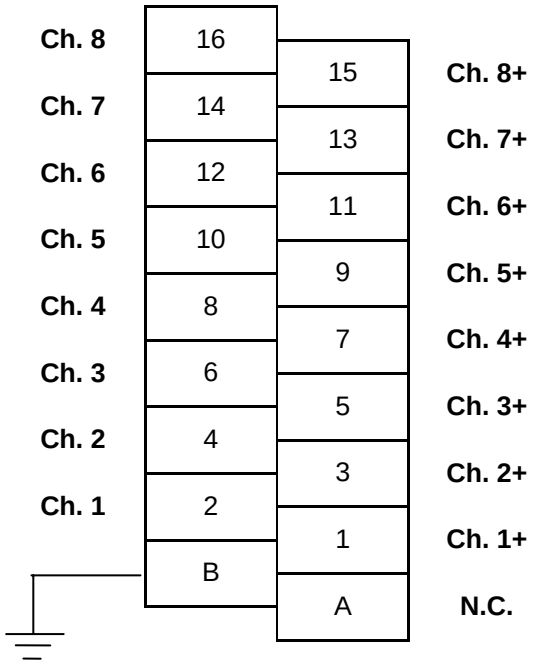

Figure 3 – I/O Terminal Block with Box Terminal

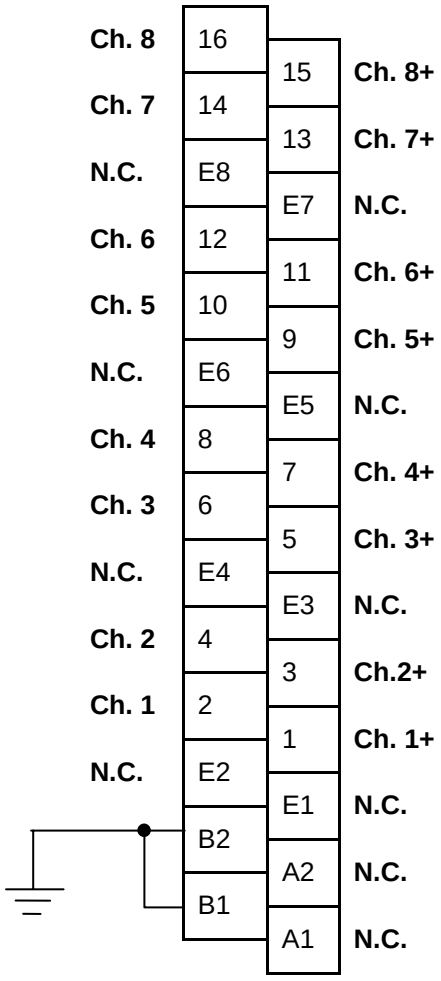

Figure 4 – I/O Terminal Block with Barrier Terminal

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 <u>not</u> 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.