5.1 Analog Input IOTA Models CC-TAIX01, CC-TAIX11

The Series C Analog Input IOTA board is represented by the following information and graphic.

To access the parts information for the:

- module
- IOTA
- terminal plug-in assembly, and
- fuses

associated with this board and module, refer to Analog Input in the Recommended Spare Parts section.

Series C Analog Input 6 inch, non-redundant IOTA is displayed.

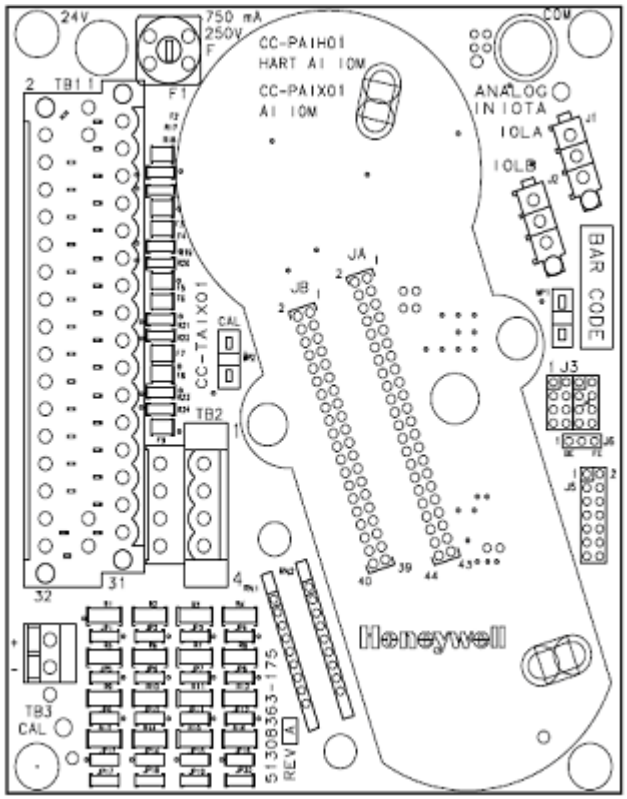


Figure 12: Series C Analog Input 6 inch, non-redundant IOTA

Note: All I/O field terminations accept up to 14 gauge stranded wire.

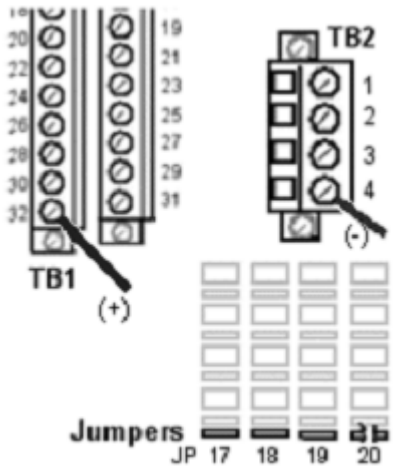
To properly wire, your module to the Series C Analog Input IOTA board with terminal block 1 (TB1) and terminal block 2 (TB2), use the following tables.

Table 17: AI 6 inch, non-redundant - terminal block 1

Terminal block 1		
Channel	**Return screw**	**Power screw**
Channel 1	2	1
Channel 2	4	3
Channel 3	6	5

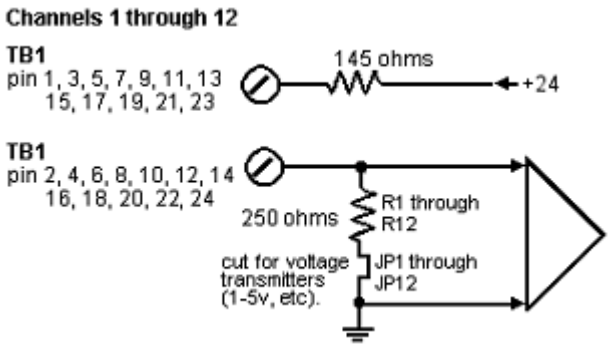
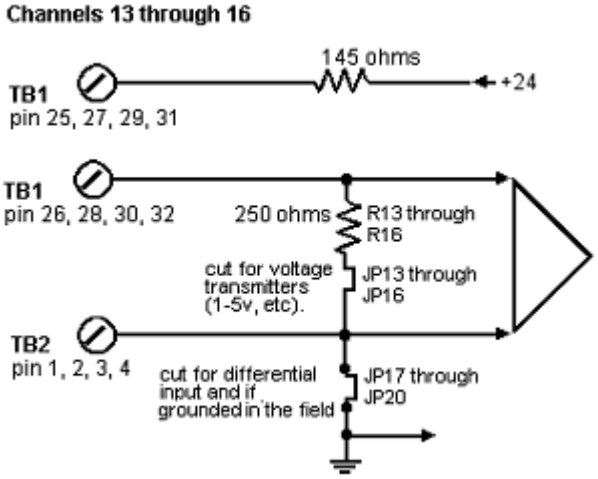
Terminal block 1		
Channel	**Return screw**	**Power screw**
Channel 4	8	7
Channel 5	10	9
Channel 6	12	11
Channel 7	14	13
Channel 8	16	15
Channel 9	18	17
Channel 10	20	19
Channel 11	22	21
Channel 12	24	23
Channel 13	26	25
Channel 14	28	27
Channel 15	30	29
Channel 16	32	31

Table 18: AI 6 inch, non-redundant - terminal block 2

Terminal block 2 - Low side of the differential inputs			
If this TB2 screw is used	**Then this channel is used**	**And this jumper is clipped**	
1	13	JP17	In the example below, cutting J20 would configure channel 16 for differential operation and pin 4 would be the low side (-) of the input signal.  Refer to “Custom wiring - Analog Input module” on page 81 for additional power connection possibilities.
2	14	JP18	
3	15	JP19	
4	16	JP20	

Jumpers are utilized to support the following conditions:

Table 19: Jumpers to support Analog Input connections

Channels	Signal screw
For channels 1 through 12	Each channel (1 through 12): • has a corresponding jumper. Therefore, channel 1's jumper would be JP1, and so forth. • the jumper must be cut if connected to voltage transmitters (1-5v. etc.) 
For channels 13 through 16	Each channel 13 through 16: • has a corresponding jumper. Therefore, channel 13's jumper would be JP13, and so forth. • the jumper must be cut if connected to voltage transmitters (1-5v. etc.) Jumpers J17 through J20 are used with Terminal Block 2 (TB2) and are used if the device is grounded in the field. 

5.1.1 Field wiring and module protection - Analog Input module

Individual field wiring is protected by an internal protection circuit permitting:

- Short circuit protection of input for field short circuits. Protection suitable for Division 2 non-incendive / Zone 2 non-arcing.
- Each signal can be shorted in the field with no damage to module or board. Other channels on the same IOM will not be affected