Operating Instructions

Honeywell

System 57
5704F Control System

CHAPTER 2 - SYSTEM DESCRIPTION

8. DC INPUT CARD (PART NUMBER 05701-A-0325)

8.1 General

The dc power to the rack can enter the sub-rack via the DC Input Card. This power may be supplied by the user from an external nominal 24V dc supply. The dc supply is routed through the Engineering Card and sub-rack back plane to all cards in the rack and is protected by a fuse on the DC Input Card. There is a two part terminal block, TB1, to aid removal of the card without disconnecting each of the connected wires.

It is necessary to limit the current flow along the rack backplane to 8A. In installations where large number of cards are used or high power sensors are supplied from the rack, it is recommended that the Control Cards are powered via their associated Relay Interface Cards and the DC Input Card is used to power the Engineering Card only.

If required, a stand-by backup battery supply may also be connected to the auxiliary dc input connections.

The PSU and AUX connections are isolated from each other by diodes.

The DC Input Card also provides RFI filtering and reverse polarity protection.

In addition, the DC Input Card provides an interface to the Engineering Card plug-in modules via TB2. The functions of the six terminals will vary dependent upon the module fitted. For full details refer to:

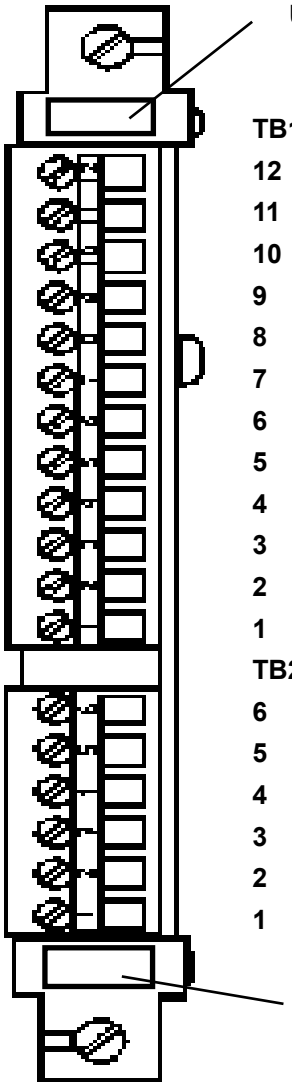
a. 05701-M-5006 System 57 Control System
Modbus Interface Option RS485/422

b. 05701-M-5007 System 57 Control System
Event Printing Option RS232

c. 05701-M-5009 System 57 Control System
Alarm Update Option

CHAPTER 2 - SYSTEM DESCRIPTION

8.2 DC Input Card Rear Access Connections



* PSU 1 and PSU 2 (and AUX 1 and AUX 2) must be compatible with parallel connection.

Note: For systems with high power loading, it is recommended that the dc power is connected direct to each channels' Relay Interface Card.

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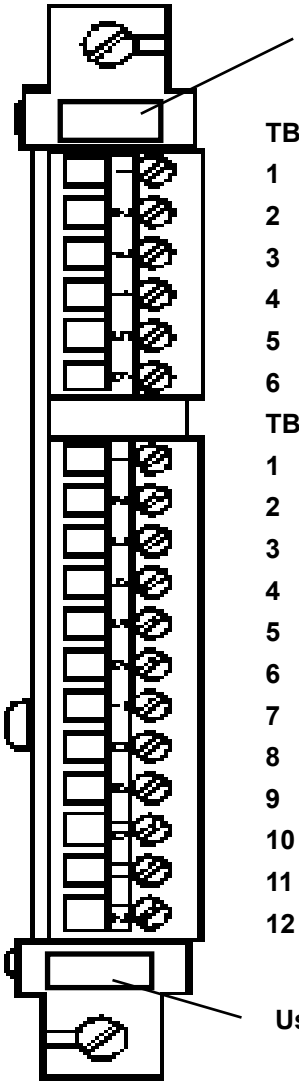
8.3 DC Input Card Front Access Connections



* **PSU 1 and PSU 2 (and AUX 1 and AUX 2) must be compatible with parallel connection.**

Note: For systems with high power loading, it is recommended that the dc power is connected direct to each channels' Relay Interface Card.