

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

HONEYWELL

05701-A-0325

SYSTEM 57 DC INPUT CARD

Used with the applicable System 57 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Honeywell 5701 Control System 05701-M-5001, MAN0443 Issue 14, January 2010, pp. 38 to 40, 130 and 201

CHAPTER 2 - SYSTEM DESCRIPTION

7. DC INPUT CARD

7.1 General

The dc power to the rack normally enters the sub-rack via the DC Input Card (Part Number 05701-A-0325). 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.

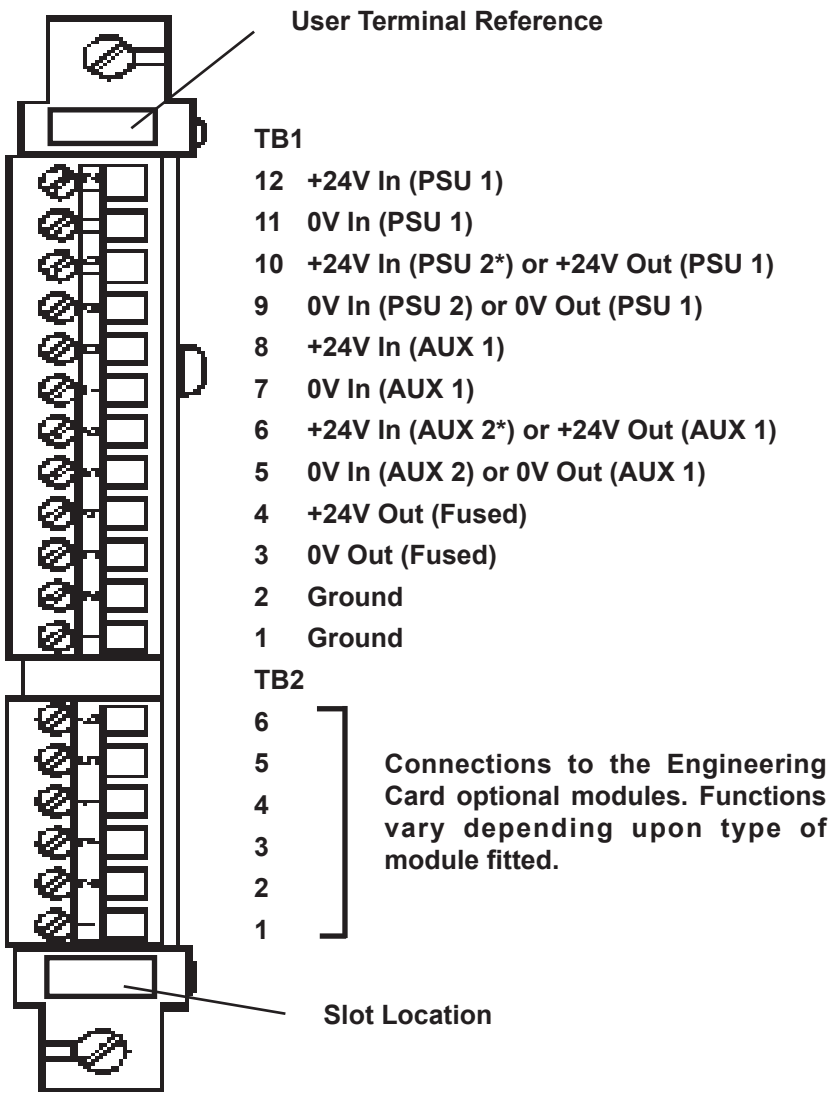
If required, a stand-by backup battery supply may also be connected to the auxiliary dc input connections.

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

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

CHAPTER 2 - SYSTEM DESCRIPTION

7.2 Rear Access Connections

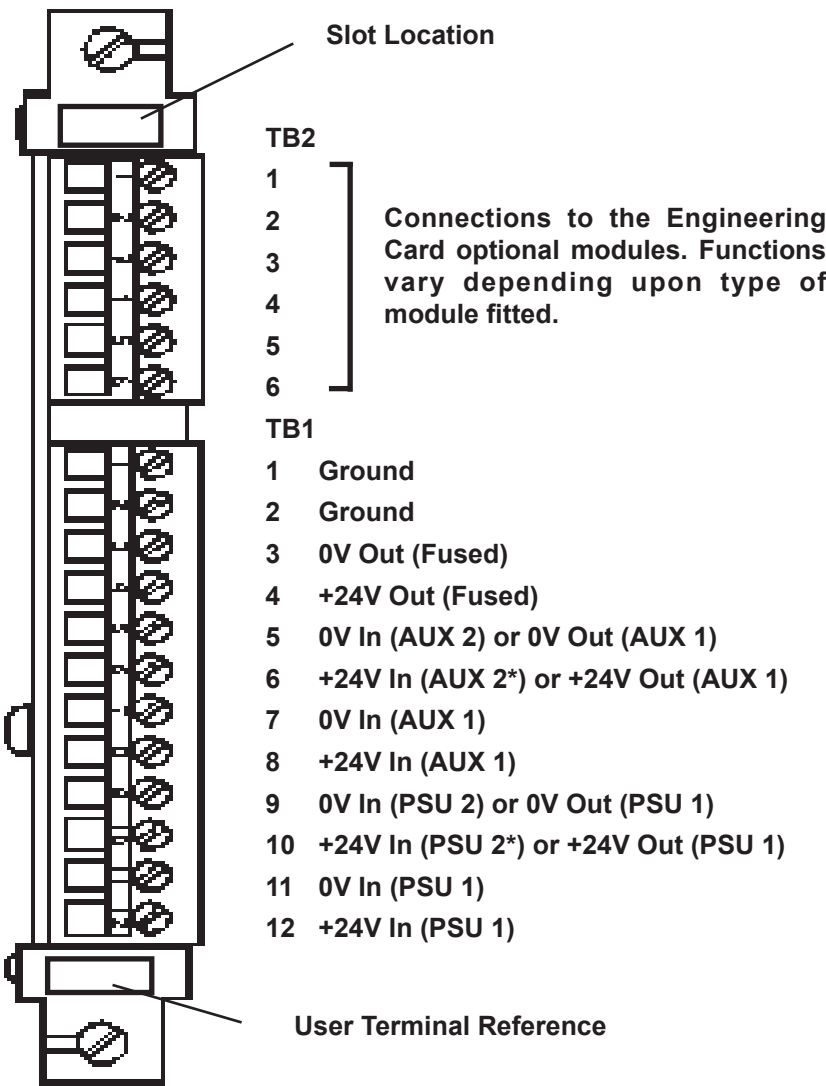


* PSU 1 and PSU 2 (and AUX 1 and AUX 2) must be compatible with parallel connection.

Note: For high integrity systems it is possible to connect the dc power direct to individual relay cards.

CHAPTER 2 - SYSTEM DESCRIPTION

7.3 Front Access Connections



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

Note: For high integrity systems it is possible to connect the dc power direct to individual relay cards.

CHAPTER 4 - INSTALLATION INSTRUCTIONS

16. DC POWER CONNECTIONS

16.1 General



CAUTION

The ratings of power supplies should be checked by calculating a system power budget as outlined in Section 5.

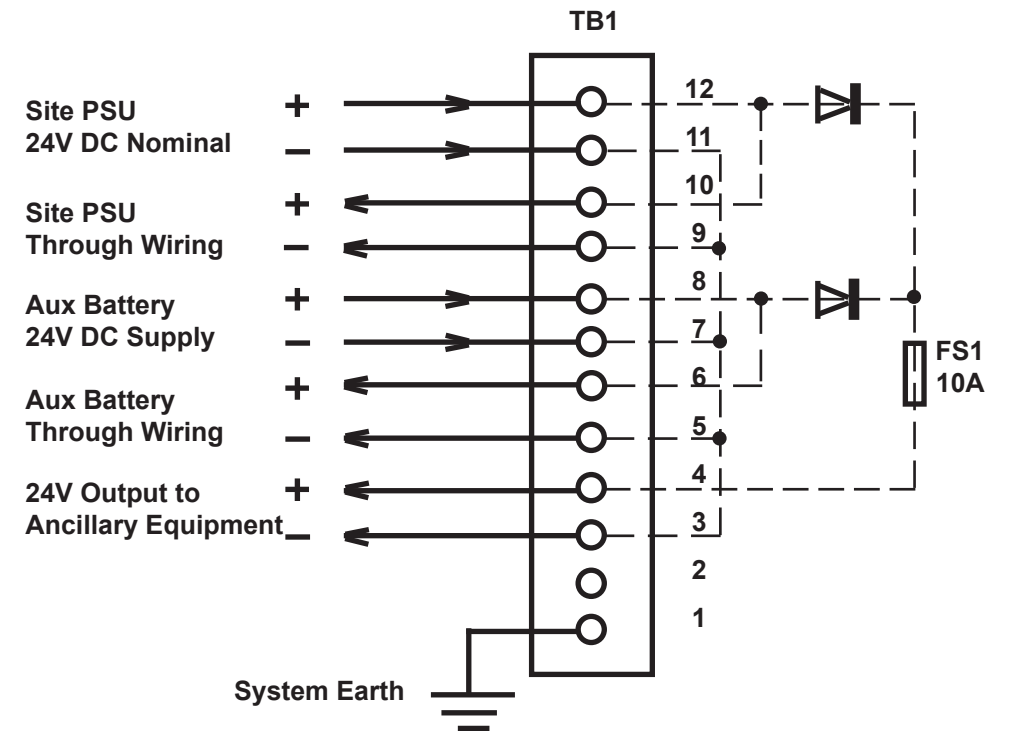
IMPORTANT

The System 57 must be earthed

DC power is connected to the System 57 via the DC Input Card terminal block TB1.

The DC Input Card provides diode isolation to permit the connection of two separate power supplies. eg. A mains derived dc power supply and battery backup dc supply. Note that current will be drawn from the supply input with the highest voltage and in some circumstances current will be shared between the two inputs. Each of the two inputs have twin +24V and 0V terminals for easy through power connection or paralleling of input sources.

A fused +24V output, which is the combination of both dc inputs, is provided for powering ancillary devices.



Site DC Supply and Auxiliary Battery Backup DC Power Supply Connections, With Through Wiring

CHAPTER 8 - SPECIFICATION

Push-Button:

Operating: Up (▲) and Down (▼).
Reject (✕) and Accept (✓).
Print (Up and Down together).

Functions:	Bead mA	Alarms
	Zero	Signal
	Span	1st Span
	Inhibit	Clock

Power Consumption: 1.5W (typical).

DC Supply: 18V to 32V dc.

Dimensions:	Height:	112mm.
	Width:	25mm.
	Depth:	170mm.

Weight: 152g.

5.7 DC Input Card

DC Supply: 18V to 32V dc.

Dimensions:	Height:	112mm.
	Width:	25mm.
	Depth:	102mm.

Weight: 129g.

Fuse Rating: 10A Anti-surge. 1¼ x ¼ inches.

Field Terminals: 2.5mm" (14 AWG).

6. CABINET ASSEMBLIES

Material: Mild steel.

Weight:	8-way:	10.0kg
	16-way:	13.5kg.

Gland Entries: Knockout.

8-way	2 x M25	6 x PG11
	8 x M20	2 x PG16

16-way	3 x M25	10 x PG11
	16 x M20	4 x PG16