

SYSTEM 57

# Product Data Sheet

**05701-A-0325**

System 57 DC Input Card

| NOMINAL DC SUPPLY | PERMITTED DC SUPPLY RANGE | POWER TERMINAL BLOCK     | ENGINEERING-OPTION INTERFACE |
|-------------------|---------------------------|--------------------------|------------------------------|
| <b>24 V DC</b>    | <b>18 to 32 V DC</b>      | <b>TB1, 12 terminals</b> | <b>TB2, 6 terminals</b>      |

Honeywell 05701-A-0325 is the DC input card for the System 57 fire and gas control platform. It brings nominal 24 V DC power into the rack and provides the connection interface for the Engineering Card and associated backplane supply.

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## VERIFIED TECHNICAL DATA

|                                    |                              |
|------------------------------------|------------------------------|
| Nominal DC supply                  | 24 V DC                      |
| Permitted DC supply range          | 18 to 32 V DC                |
| Power terminal block               | TB1, 12 terminals            |
| Engineering-option interface       | TB2, 6 terminals             |
| Fuse rating                        | 10 A anti-surge              |
| Field terminal conductor capacity  | 2.5 mm <sup>2</sup> (14 AWG) |
| Primary supply input terminals     | TB1: 12 (+24 V), 11 (0 V)    |
| Auxiliary supply input terminals   | TB1: 8 (+24 V), 7 (0 V)      |
| Primary supply through terminals   | TB1: 10 (+24 V), 9 (0 V)     |
| Auxiliary supply through terminals | TB1: 6 (+24 V), 5 (0 V)      |

## ADDITIONAL PRODUCT DATA

|                                  |                                  |
|----------------------------------|----------------------------------|
| Fused ancillary output terminals | TB1: 4 (+24 V), 3 (0 V)          |
| Earth terminals                  | TB1: 2 and 1                     |
| Supply-path isolation            | Diodes between PSU and AUX paths |
| Polarity protection              | Reverse-polarity protection      |
| Interference protection          | RFI filtering                    |

## DOCUMENTED USE SETTINGS

Petroleum Production and Natural Gas Processing: Petroleum Refining and Processing.

Chemical Manufacturing and Petrochemical Production: Industrial Chemical Production.

Industrial Manufacturing and Energy Production: Industrial Process Manufacturing.

## SYSTEM COMPATIBILITY

05701-A-0325 supplies the Engineering Card and backplane of a compatible System 57 rack. Identify the rack version and fitted Engineering Card option before allocating TB1 and TB2 wiring.

## PRODUCT EVIDENCE

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