

Honeywell Honeywell Series Service Manual

900B01-0301

1. Description

Honeywell Analog Output, 0 to 20mA, 4 Channel (900B01-0301)

3. Product Information

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The Analog Output module provides 4 isolated 0 to 21.8 mA outputs that may be scaled by the user to any span within this range on a per output basis.

A green blinking status LED on the module indicates when the module is being scanned. A red status LED when module or channel diagnostics exist. A user specified failsafe value is supported to allow predictable operation in the event communication between the module and the controller is interrupted.

Outputs are updated synchronous with IOM scan time which has minimum value is 500ms.

Item Specification

Outputs per module 4 (isolated)

Current 0 to 21.8 mA range selectable

Load resistance 750 ohms max

Galvanic Isolation 500VDC Channel to Channel.

Galvanic Isolation from logic 600 VDC

Accuracy 0.1% full scale at reference conditions

Modules per rack 10 max, up to 12 with product ambient temperature de-rating (see figure below)

Minimum current sensing > 3.5 mA per output

Calibration Data Data is stored in non-volatile memory. Redundant Factory Calibration, with automatic rejection of Bad version.

Diagnostics Monitoring of Factory Calibration, Configuration, and +24 VDC power supply.

Output Verification Feedback to controller that indicates output current flowing.

D/A Resolution 12 bits

Fail Safe State configuration Yes

Hold Last Value

Failsafe Value

User specified scan rate It is supported by the slew rate function block.

Slew Rate is the maximum rate of change required to drive the output from full

OFF (0%-typically 0 mA or 4 mA) to full ON (100%-typically 20mA). The block will convert this to a maximum change of the milliamp output per execution cycle of this block.