

05701-A-0302

System 57 Catalytic Single-Channel Control Card

Honeywell 05701-A-0302 is the catalytic sensor-drive execution for a System 57/5701 single-channel control card. It powers a catalytic gas detector and processes its measurement for display, alarms and system outputs.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

System 57 / 5701 Gas Detection System

PART

05701-A-0302

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PRODUCT OVERVIEW

Honeywell 05701-A-0302 is the catalytic sensor-drive execution for a System 57/5701 single-channel control card. It powers a catalytic gas detector and processes its measurement for display, alarms and system outputs.

- 1

Drives and reads one catalytic gas detector channel
- 2

Displays gas concentration and channel status at the rack front
- 3

Evaluates configured gas alarms, fault and inhibit conditions
- 4

Provides local and remote reset, inhibit and alarm functions

SYSTEM COMPONENTS

- 5701 single-channel control card
- compatible catalytic gas detector
- System 57 rack and DC input card
- configured relay or analog-output option

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
900G02-0202	HC900 digital-input module	Open product page
900H02-0202	HC900 digital-output module	Open product page
FC-USI-0001	Safety Manager universal safe I/O module	Open product page
MC-TPIX12	TPS pulse-input termination assembly	Open product page

TECHNICAL DATA

PARAMETER	VALUE
Control-card type	Single channel
Sensor drive option	Catalytic
Catalytic drive module	05701-A-0302
Display	Four-character LCD
Gas reading display	Analogue bargraph
Alarm indicators	A1; A2; A3; STEL; LTEL
Fault indicator	Amber LED

PARAMETER	VALUE
Inhibit indicator	Amber LED
Reset/select control	Front-panel pushbutton
Remote reset input	Terminal 33
Remote inhibit input	Terminal 34
Remote alarm input	Terminal 35
Remote-input common	Terminal 36
Optional analog output	0 to 20 mA or 4 to 20 mA

TECHNICAL NOTE

Match the catalytic detector type and bridge parameters to the 5701 configuration, then perform zero, span, alarm, fault and remote-input tests with the area under the approved gas-testing procedure.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Combustible-gas monitoring in process areas

Drives and reads one catalytic gas detector channel

Catalytic detector channel replacement

Displays gas concentration and channel status at the rack front

Gas alarm and fault annunciation

Evaluates configured gas alarms, fault and inhibit conditions

Remote inhibit and reset integration

Provides local and remote reset, inhibit and alarm functions

PRODUCT PRECAUTIONS

- 1 Verify 05701-A-0302 and the assigned 5701 channel before removing the card.
- 2 Place the gas-detection function in the approved inhibited maintenance state.
- 3 Isolate detector and relay circuits where required before disturbing terminals.
- 4 Record detector type, range, alarm thresholds and relay action before replacement.
- 5 Use ESD controls and protect the catalytic drive-module connectors.
- 6 Restore field wiring to the original numbered terminals and preserve shield practice.
- 7 Calibrate zero and span with the approved detector gas and procedure.
- 8 Prove alarm, fault, inhibit, reset and any analog-output response before service.

ENGINEER FAQ

Q1 Does 05701-A-0302 match 5701 single-channel control card in a Combustible-gas monitoring in process areas installation?

Verify the complete 05701-A-0302 marking, the documented System 57 / 5701 Gas Detection System position and the installed 5701 single-channel control card before fitting the assembly.

Q3 Which System 57 / 5701 Gas Detection System records should be captured before removing 05701-A-0302?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 05701-A-0302 before disconnection.

Q5 Which compatible catalytic gas detector condition should be checked when 05701-A-0302 reports an abnormal state?

Check the compatible catalytic gas detector supply, seating and connection first, then compare channel diagnostics with the recorded 05701-A-0302 baseline.

Q7 What maintenance evidence is required after 05701-A-0302 is used for Gas alarm and fault annunciation?

Retain the nameplate record, corrective action, final diagnostics and a controlled gas alarm and fault annunciation functional-test result for 05701-A-0302.

Q2 How should 05701-A-0302 be wired when it must drives and reads one catalytic gas detector channel?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 05701-A-0302; then continuity-test the affected path.

Q4 What controlled test confirms that 05701-A-0302 can displays gas concentration and channel status at the rack front?

Apply the approved field or simulated stimulus, observe the System 57 / 5701 Gas Detection System indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can 05701-A-0302 be moved directly into Catalytic detector channel replacement without validating configured relay or analog-output option?

No. Confirm the configured relay or analog-output option, revision, connection scheme and System 57 / 5701 Gas Detection System configuration before transferring 05701-A-0302 to that duty.

Q8 How should 05701-A-0302 be returned to service in Remote inhibit and reset integration?

Restore power under control, verify evaluates configured gas alarms, fault and inhibit conditions, exercise the intended signal path and release 05701-A-0302 only after the System 57 / 5701 Gas Detection System remains in its approved operating state.