

INDUSTRIAL AUTOMATION PRODUCT

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.

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	System 57 / 5701 Gas Detection System
Part number	05701-A-0302
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Honeywell product record.

PARAMETER	TECHNICAL 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
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

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System Role and Architecture

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.

FUNCTION 1

Drives and reads one catalytic gas detector channel

FUNCTION 2

Displays gas concentration and channel status at the rack front

FUNCTION 3

Evaluates configured gas alarms, fault and inhibit conditions

FUNCTION 4

Provides local and remote reset, inhibit and alarm functions

Matched system components

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

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	5701 single-channel control card
Companion hardware	compatible catalytic gas detector
Field connection	System 57 rack and DC input card
Primary system function	Drives and reads one catalytic gas detector channel
Controlled acceptance duty	Combustible-gas monitoring in process areas

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Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	05701-A-0302 / 05701-A-0302 recorded
Physical interface	5701 single-channel control card
Companion check	compatible catalytic gas detector
Functional proof	Drives and reads one catalytic gas detector channel
Application test	Combustible-gas monitoring in process areas

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Engineering 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.

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

MANUFACTURER SOURCE RECORD

System 57 5701 Control System Manual

MAN0443 Issue 14

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