

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Selected official material for procurement and maintenance review

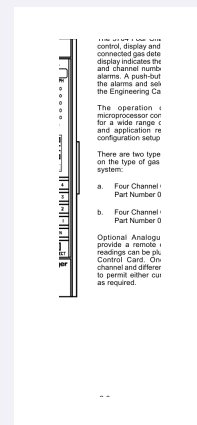
PRODUCT BRAND

HONEYWELL

PRODUCT MODEL

05704-A-0145

Four-channel 4-20 mA control card



OFFICIAL SOURCE

Honeywell 5704 Control System Operating Instructions, Issue 12

AMIKON PRODUCT SUPPORT

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Amikon Limited prepared this independent reference package. The following pages reproduce selected manufacturer pages without altering their technical content.

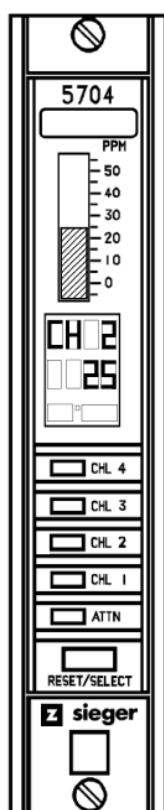
MAN0448.P65 Issue 12 Aug 04
005704-M-5001 A02279

5704 Control System

CHAPTER 2 - SYSTEM DESCRIPTION

4. FOUR CHANNEL CONTROL CARDS

4.1 General



The 5704 Four Channel Control Card provides control, display and alarm facilities for up to four connected gas detectors. The front panel backlit display indicates the gas reading, channel status and channel number while LEDs are used for alarms. A push-button is provided for resetting the alarms and selecting the card for use with the Engineering Card.

The operation of the control card is microprocessor controlled and is fully definable for a wide range of connected gas detectors and application requirements. The software configuration setup is stored in an EEPROM.

There are two types of control card depending on the type of gas detector being fitted to the system:

- Four Channel Control Card Catalytic Input
Part Number 05704-A-0144.
- Four Channel Control Card 4 - 20mA Input
Part Number 05704-A-0145.

Optional Analogue Output Modules which provide a remote output of the channel card readings can be plugged into the Four Channel Control Card. One module is required per channel and different module types are available to permit either current source or current sink as required.

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5704 Control System

CHAPTER 8 - SPECIFICATION

Display/Alarm Point:

Linearity: $\pm 2\%$ f.s.d.
Repeatability: $\pm 2\%$ f.s.d.

Remote Facilities: Inhibit/Alarm Reset.

Remote Inhibit / Reset Inputs

Active For Inputs: More than 2V.

Maximum Input Voltage: 32V.

Maximum Input Current: 5mA.

DC Supply: 18V to 32V dc.

Electronic Drift: Less than $\pm 3\%$ / 6 months.

Dimensions: Height: 132mm.
Width: 25mm.
Depth: 172mm.

Weight: 170g.

5.4 Four Channel Control Card - Catalytic

Power Consumption: 12.8W (maximum at 200mA sensor current).
8.5W (typical).

Drive: Constant Current.

Initial Accuracy: $\pm 1\%$.

Current Adjustment: Electronic in 1mA steps from 90 to 315mA.

Maximum Drive Voltage: 10V.

Protection: Protected against short circuit and open circuit.

Maximum Line Resistance: 40 ohms (including sensor) at 200mA.

Full Scale Signal Range: 15mV to 300mV.

Bridge Imbalance Default Limits: $\pm 100\text{mV}$ from centre at 2V bridge voltage.

Adjustment: Electronic adjustment of bridge balance and signal gain.