



SYSTEM 57

5701 CONTROL CARD



PRODUCT DESCRIPTION

The 5701 single channel control cards are part of the System 57 control family and provides sensor control, signal processing and comprehensive alarming of any resulting gas detected. There are two versions; one is for catalytic bridge type sensors while the other is for 4 to 20mA sensors or transmitters. The card input function is selected by a specific plug-in module, optional output modules are also available.

Each card has a clear LCD display which provides sensor readings in both analogue and digital forms with peak reading hold and an alphanumeric display to provide intelligent status information.

FEATURES:

- un-ambiguous display.
- peak reading indication.
- common card design.
- fully configurable.
- sensor performance checking.
- no potentiometer within the design.
- plug-in input and output options.

ALARM CAPABILITIES:

- 3 levels of alarm.
- fault.
- inhibit.
- master.
- zoned.
- TWA; STEL, LTEL.
- voting.
- update.
- rate of rise.
- delayed operation of relays for relay on and/or off.

data sheet

General Specification

Control Card

Backlit LCD:

bargraph + peak reading, digital, alphanumeric.

Front Panel Facilities:

red LED:	A1, A2, A3.
yellow LED:	fault, inhibit.
green LED (LCD):	power.
push-button:	alarm reset/ card select.

Remote Facilities:

inhibit and alarm reset.

Supply Voltage:

18V to 32V dc.

Power Consumption:

Catalytic:	3.75W.
4 - 20mA:	3.25W.

Display/Alarm Point:

linearity:	1% fsd.
repeatability:	1% fsd.

Electronic Drift:

less than $\pm 2\%$ / 6 months.

Operating Temperature:

-5°C to +55°C.

Storage Temperature:

-25°C to +55°C.

Operating Humidity:

20 - 90% RH (non-condensing).

Dimension:

3U high x 25mm wide.

Weight:

165g.

Approvals:

EN50081.1, EN50082.1,
EN50081.2, EN50082.2 (using
System 57 cabinet).

Catalytic Bridge Input

Drive Method:

constant current.

Current Range:

70mA to 283mA.

Full Scale Range:

15mV to 600mV.

Maximum Line Resistance:

40 ohms at 250mA (including sensor).

4 - 20mA Input

Loop Powered Voltage:

23V \pm 5% isolated.

Sensor Configuration:

current sink or source.

Signal Measurement Range:

0 to 25mA.

Maximum Loop Resistance:

500 ohms (including sensor).

Analogue Output Option

Measurement Signal Range:

0 to 20mA or 4 to 20mA.

Linearity From Input:

better than 2% fsd.

Repeatability From Input:

Better than 1% fsd.

Note: Depending on installation, a loss of performance of less than $\pm 5\%$ may be observed under extreme conditions of EMC susceptibility.

Configuration:

isolated current sink or source (with external supply).

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