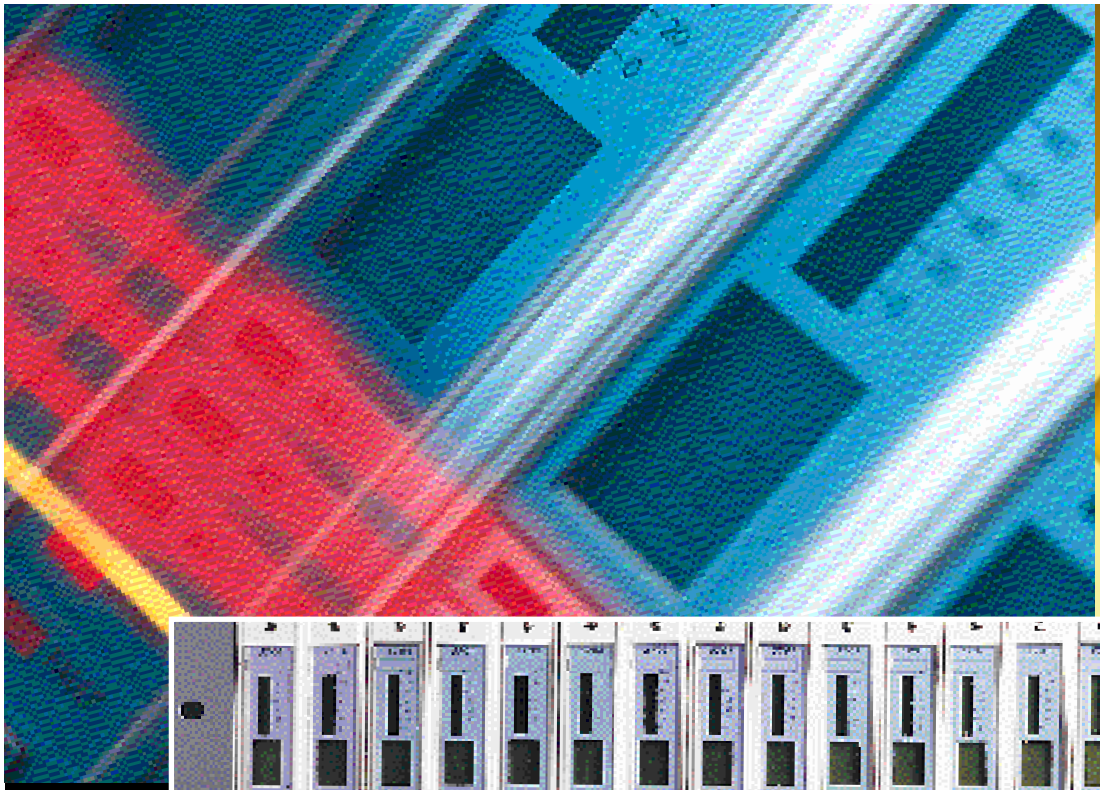
sieger

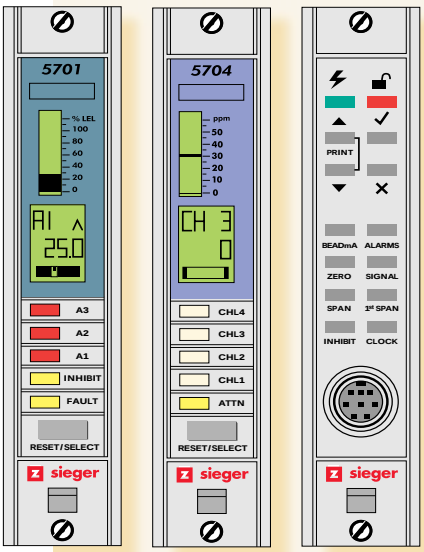


SYSTEM 57

GAS DETECTION CONTROL

an advanced new world
of intelligent gas
detection system
management

zellweger analytics



5701 Control Card 1 channel Front Panel

5704 Control Card 4 channel Front Panel

Engineering Card Front Panel

Typical SYSTEM 57
Application Sectors

OIL AND GAS
- Petrochemical
- Onshore
- Offshore

INDUSTRIAL
- Chemical
- Semi-conductor
- Water treatment
- Food

COMMERCIAL
- Building services
- Car parks
- Boiler houses

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A company of the Zellweger Luwa Group

SYSTEM 57 brings future thinking to a new generation of gas detection, alarm and control applications

For 40 years the “sieger” name has led the world in combustible and toxic gas detection, holding one of the original and still widely used patents for catalytic gas detection.

Sieger, now part of the Zellweger Analytics group, use their technological lead to create higher performance, more comprehensive and more cost effective gas detection for a safer world. Across the globe, Zellweger Analytics install control systems for the world’s major gas detection users, providing the safety needed to protect plant, personnel and the environment from gas leaks and explosion risks.

Zellweger Analytics strive constantly to advance gas detection control technology and to increase the reliability and intelligence of control system management for all flammable and toxic gas applications.

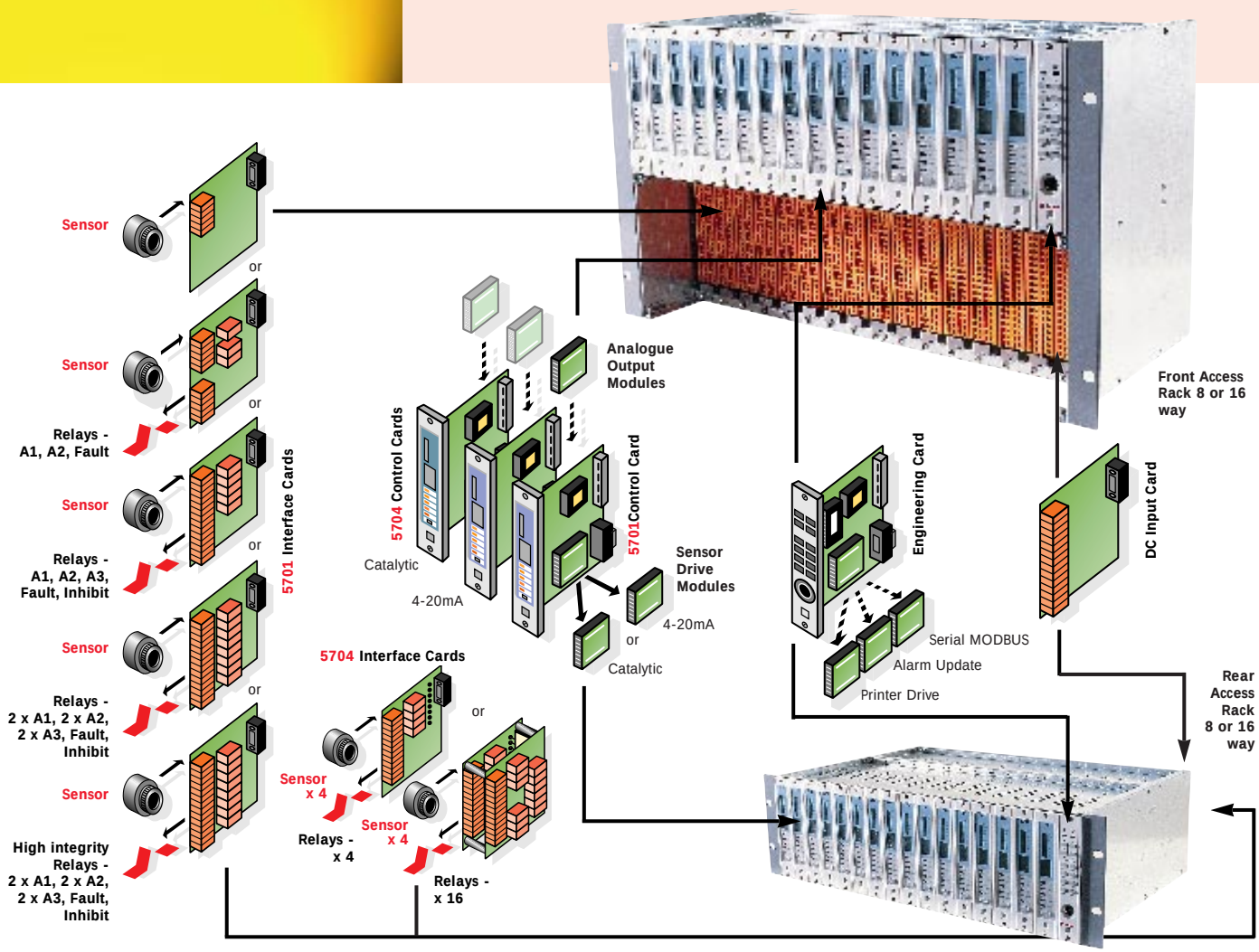
Zellweger Analytics gas detection control expertise

SYSTEM 57 ... a new world of control technology

- **High precision, intelligent control**
- **Master/voted alarm options**
- **High packing density**
- **Flexible I/O configuration**
- **Relay output options**

ADVANCED GAS DETECTION SYSTEM MANAGEMENT GET CONTROL

In the new world of intelligent gas detection system management, System 57 takes control.



CONTROL CARDS

The new generation System 57 control cards provide display and alarm facilities for the full range of Sieger gas detectors.

Their concise, backlit, multi-part LCD displays the gas reading and status in both analogue bargraph and digital numeric forms. In addition, there is an alpha-numeric message section to give sensor (and engineering function) status.

General

- **3 levels of alarm**
- **Individual, zoned, voted, master, time delayed, update and rate of rise alarm facilities**
- **Clear 4 part display**
- **Peak reading capability**
- **Sensor performance monitoring**

5701 CONTROL CARD

This provides a single channel control function within a 1“ wide package.

- **Independant single channel operation**
- **Plug-in input and output options**

5704 CONTROL CARD

This provides four channels of control function within a 1“ wide package.

- **4-Channel operation**
- **Choice of output options**
- **Channel displayed: automatic sequencing, highest reading or combination or manual channel display selection options**

ENGINEERING CARD

The System 57 engineering card provides full maintenance and set up facilities for each channel card.
The front panel has a series of tactile feedback pushbuttons that allow checks of the alarm levels and performance to be carried out for each channel. A real time ‘on board’ clock provides calibration history and calibration overdue reminder functions.

- **Security protected**
- **User friendly operation**
- **Calibration facility**
- **Command accept/abort facility**
- **Channel card setup capability**

ENGINEERING CARD MODULES

A number of plug-in options for the engineering card provides extended system capabilities.

SERIAL COMMUNICATIONS MODULE

The serial communications module provides a gateway between the System 57 rack and a remote device (DCS, PLC or SCADA package) to allow the continuous monitoring of each channel’s operation and condition as well as allowing remote configuration of the system operation.

- **Industry standard MODBUS protocol**
- **RS485/422/232 standard**
- **Bi-directional**
- **Isolated communications drivers**
- **SCADA graphics package available**

RS232 PRINTER DRIVE MODULE

The printer module provides a serial output in the event of a gas alarm, fault or user intervention.

- **RS232 ASCII event data**
- **Selectable print criteria**
- **Time and date stamping**
- **Isolated communications driver**
- **Rack mounted printer option**

ALARM UPDATE MODULE

The alarm update module provides a common alarm indication with new alarm event update.

- **2 outputs: 1 relay, 1 Darlington**
- **Selectable operation: pulsed, continuous**
- **Alarm accept input**
- **Common alarm reset input**
- **Complies with ISA ‘’M’’, DIN 19 235**
- **Optional update communication panel**

INTERFACE CARD

The interface card provides the link between the sensors and the control cards and is available in 7 versions (5 for 5701, 2 for 5704), with various relay output options.

- **Sensor interface**
- **Relay options**
- **Individual control card power option**
- **High integrity operation option**
- **Accepts ≤ 2.5mm / 14 gauge cable**

DC INPUT CARD

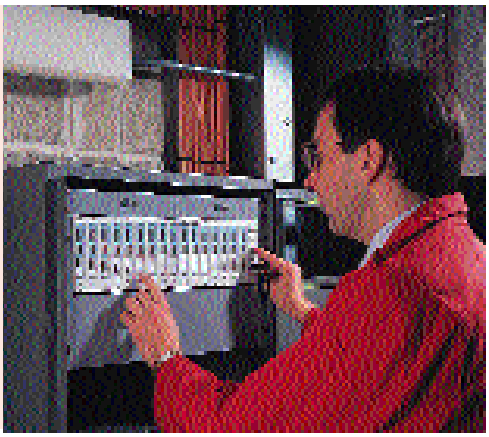
The DC input card provides the connection point for power supplied to the whole rack.
The field wiring from the engineering card modules is also on this card.

- **Common power supply wiring point**
- **Reverse polarity and short circuit protection**
- **Multi-supply input capability**

RACK ASSEMBLIES

System 57 racking units provide mounting options for the System 57 channel control cards and interface cards. The racks are available complete with a DC input card and an engineering card.

- **3U high format**
- **Front and rear wiring options**
- **Half and full 19“ versions**
- **Up to 16 control cards, giving 16 or 64 channels of gas detection, per rack**



POWER SUPPLY UNITS

The power supply units are rack mounted to complement the System 57 systems.

- **1U high, 19“ & 1/2 19“ units**
- **Upgradeable**
- **Auto sensing input voltage; AC or DC**
- **Regulated DC output**
- **Over voltage and overload protected**

CABINET ASSEMBLIES

The System 57 cabinets provide a convenient and compact mounting of the rack assemblies and PSUs.

- **Wall mounting half and full 19“ versions**
- **IP54/Nema 12 cabinet protection rating**
- **Preformed knock-out gland entries**
- **Accessory mounting plate**