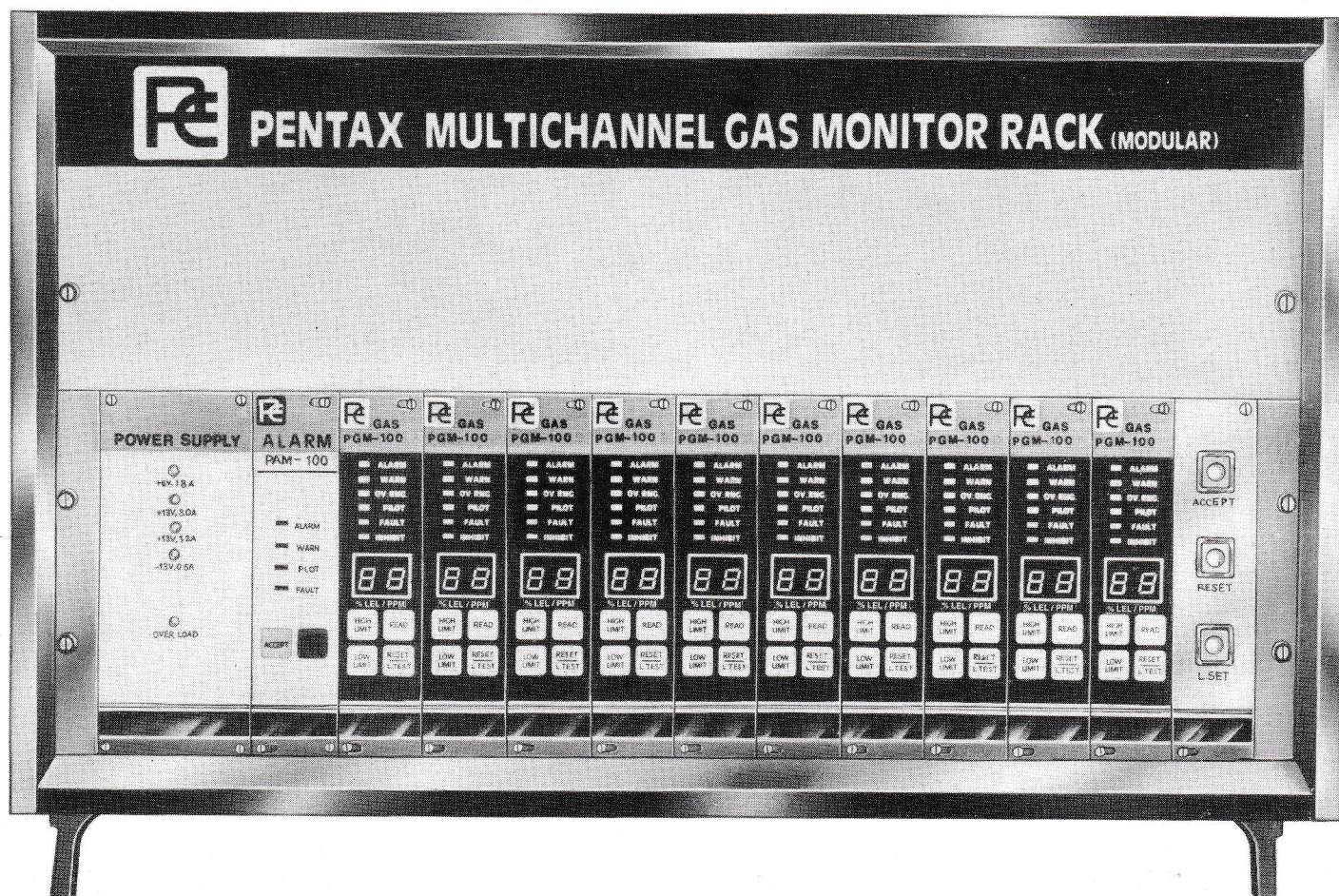




# MULTICHANNEL GAS MONITOR RACK (MODULAR)



## Features:

- Power Supply Module suitable for 230V AC/110V AC or 24V DC Input
- Full Size Motherboard based Design
- Flexible combinations of Signal and Alarm Modules possible
- Module Address Decoding Logic
- Module Absent Detection Logic
- Module Inhibit and Fault/Absent bypass switches
- Module to Motherboard Connections through 2 part Euro Connectors
- All Input and Output connections through Std. 2 part connectors
- Industry Standard Instrument Box or Euro 19" Card Rack
- Easy system expansion due to Modular Design
- Automatic entry in "CAL" Mode
- All outputs of Signal Modules Inhibited in "CAL" Mode
- Rack Level Control Inputs/Outputs
- Programmable grouping of Open Collector and Relay Outputs of Signal Modules
- Battery backed Buzzer facility

Pentax Multichannel Gas Monitor Rack is a standard Instrument Box or a standard 19" Euro rack which slides on two angles and is mounted in the standard panel by 4 Front Mounting screws. This Gas Monitor Rack comprises of number of Signal and Alarm Modules and one Power Supply Module.

One Signal Module with One Sensor makes one channel, Pentax Multichannel Gas Monitor Rack has provision for 10 Indicating type or 16 Blind type Signal Modules. Alarm Module is required one per Zone and for the system as whole in a multipoint, multizone system. However for a single zone multipoint system, a single Alarm Module is sufficient. Power Supply Module is normally required one per rack. All these modules are interconnected on the motherboard through two part 64 way Euro connectors.

All connectors to and from the Monitor Rack are through two part "D" type of "FRC" connectors.

All the modules are plug-in type and can be unplugged by unscrewing the front mounting screws and pulling them out.

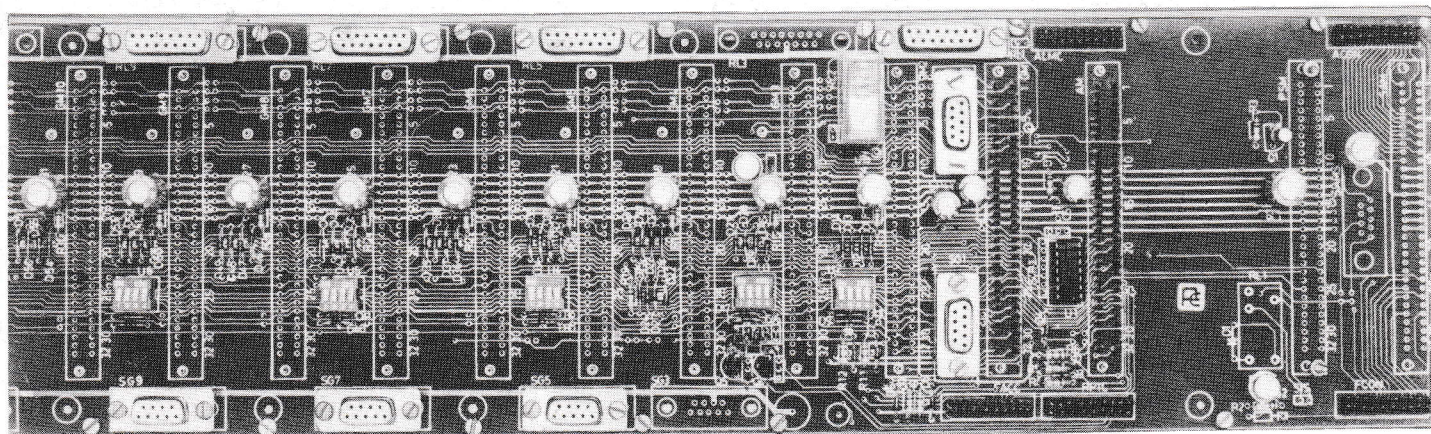
Thus, by using A—Signal Module (Indicating or Blind), A—Alarm Module (Std. or Common Display), C—Power Supply Module and the D—Motherboard as basic building blocks, any multipoint, multizone gas detection and monitoring system can be designed by stacking number of Gas Monitor Racks one below the other in the standard Control Panel of suitable size e.g. 1) Single Zone Multipoint indicating Type, 2) Single Zone Multipoint with Common Display, 3) Multizone, Multipoint with Common Display.

Zone, Rack and System level inputs/outputs are made available to the user. As a result, any type of control and audio visual annunciation scheme can be easily implemented.





# MULTICHANNEL GAS MONITOR RACK



## Specifications:

- Construction** — 3U high Euro 19" Card Frame, Height - 132 mm, Width - 482mm, Depth 425mm.
- Connectors** — 64 Way DIN 41612 3-Micron gold plated Euro. One each per Signal Module, Alarm Module and Power Supply Module.
- DIN D-9 pin connector for sensor (2 Ch. in one)
- DIN D-15 pin connector for Relay and other outputs (2 Ch. in one)
- DIN D-9 pin connector for Power Supply
- FRC flat cable connector for Facility, Repeater Signals

## Inputs/Outputs:

- FACC** — All signals are bussable to interconnect various zones to evolve System Level Control Scheme
- Signals are:  
Speaker (2), LP, HP, LL, HL (Pulse and level open collector outputs for Warn and Alarm) Reset, Acknowledge, Lamp Test, Inhibit for zone controls, Analogue bus signal, Test input
- RPTC** — All signals are bussable to interconnect various zones to generate system level repeater bus signals.
- Signals are:  
AD1 to AD6 (six address lines to address upto 64 modules), Clock, Enable,  
LR, HR, OR, IR, PR, FR for Warn, Alarm, Over Range, Inhibited, Pilot and Fault.
- ALMC** — Relay Outputs (Single C/O Fail Safe) for Warn, Alarm and Fault from Zone Module.
- SG** — 3 Signals for each sensor and 2 sensor in one connector (DIN-D9)
- RL** — 1 N/O. relay for Warn and Alarm, Recorder output, inhibited output - 2 channels in one connector (DIN-D15)
- CAL** — Calibrate Input for full monitor rack.



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