PRODUCT DESCRIPTION

The ICM 07 single Intelligent control module forms part of the Intelligent gaZalarm control family and provides sensor control, signal processing and comprehensive alarming of any resulting gas detected. There are two versions; one is for IR / Catalytic combustion type for combustible gas detection and the other is electrochemical for oxygen / toxic gas detection like (H_2S, CO) etc., accept 4-20 mA signal from sensor transmitter. The card input function is selected by a specific plug-in module; optional output modules are also available.

Each card has alpha numeric LED display which displays sensor readings in numerical form and provides intelligent status information in alphabetical form.
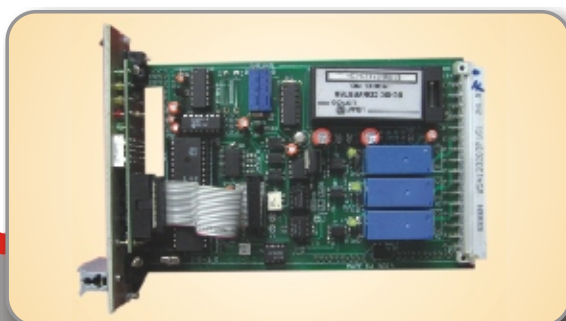
FEATURES:

- Un-ambiguous digital display
- Common card design
- Fully configurable
- Sensor performance checking
- No potentiometer within the design
- Plug-in input and output options
- Advanced micro controlled based
- RS - 485 serial communication
- Pass ward protection
- User setup, setup check mode

ALARM CAPABILITIES:

- 2 level alarm 2 SPDT Free Potential Relay Contacts
- Fault 1 SPDT Free Potential Relay Contacts
- Inhibit
- Rate of rise

gaZalarm Exi Compustible
gaZalarm Txi Toxic
ICM 07 CONTROL MODULE

General Specifications

Control Card

- **Display LED:**
  Peak reading, digital, alphanumeric

- **Front Panel Facilities:**
  Red LED: A1, A2, A3
  Yellow LED: Inhibit
  Green LED: alarm reset

- **Remote facilities:**
  Inhibit and alarm reset

- **Supply voltage:**
  18 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 ±2% / 6 months

- **Operating Temperature:**
  -20ºC to 65ºC

- **Storage Temperature:**
  -20ºC to 85ºC

- **Operating Humidity:**
  0-95% RH (non-condensing)

- **Dimensions:**
  3U high x 25mm wide

- **Weight:**
  150g

Catalytic Bridge Input

Input
- **Signal :**
  4 to 20 mA

- **Maximum Loop Resistance:**
  250 ohms (including sensors)

Analogue Output Option:
- **Measurement Signal Range:**
  4-20mA

- **Digital Output:**
  RS - 485 MODBUS

- **Relay Output:**
  Alarm 1
  Alarm 2 & Fault

- **Linearity From Input:**
  Better than 2% fsd

- **Repeatability From Input:**
  Better than 1% fsd

- **Compatibility:**
  With SCADA

- **Modes:**
  Increment, Right Shift, Enter Mode

- **Pass ward Protection for :**
  → System Configuration
    Calibration Mode
  → Programming Mode Rating 5A

Note: Depending on installation, a loss of performance of less then ±5% may be observed under extreme conditions of EMC susceptibility.