Features

- Microprocessor based
- 4-digital datasheet output
- Voltage free relay contacts
- RS485 digital interface
- Alphanumeric dot matrix display
- "Non-Person" calibration
- Small size
- Certified ATEX II 2 G (Ex ia IIC) T4
- Low power consumption
- Standalone operation

The Sensor 5000 is a high-quality, self contained, intelligent gas sensor that offers a host of sophisticated features to provide fast, reliable warnings against explosive concentrations of combustible gases.

The 5000 will operate as a stand-alone instrument or be compatible with a control bar or a computer. The 5000 is housed in an attractive, compact-diameter enclosure and may be configured or calibrated by one person, without disclosing the hazard outcome. The gas concentration is indicated on a backlighted alphanumeric display which also indicates instrument status. The 5000 is fully user-programmable and no physical adjustments are necessary during calibration as the embedded computer enables the calibration procedure. All user variables are stored in non-volatile memory (EEPROM) and equipped reliability even during total power failure.

Typical Applications for the 5000:

- Oil refineries
- Chemical processing
- Offshore platforms
- Gas processing
- Oil and gas storage depots
- Gas pipelines
- Tank farms
- Laboratories
- Petrochemical industry

The 5000 uses the sensor Hesicon 2000/60 thermocatalytic sensor combined with advanced, surface-mount micropower and proliferation technology. Combustible gas oxidizing on the surface of a thermocatalytic element causes an imbalance in a simulation bridge circuit. This imbalance is amplified to give a voltage proportional to the gas concentration. This voltage is then processed by the CPU. A watchdog circuit monitors the system operation and hence the CPU the failure is detected.

The 5000 is calibrated to user-can permitted by calibrating the magnetic switches with a magnet. The operation is then guided through a variety of options in a user-friendly menu. The CPU currently