# inControl Systems Inc.

## Flame and Gas Detection

# "Our flame and gas detectors are globally certified to the latest product approval standards"

Wherever toxic or combustible gases are part of an industrial process or a by-product of it, they pose a threat to people, property, and, productivity. inControl Systems Inc. provides a complete line of rugged, reliable, stationary gas and flame detectors and various types of addressable and conventional controllers to serve as your first line of defense against gas and flame threats.

Our Industrial line incorporates the full spectrum of sensing technologies (electrochemical, catalytic bead, open-path, and, point Infrared) for gas detectors and (Ultra-Violent, Infrared, Ultra-Violent/Infrared, and, Triple-Infrared) for flame detectors; We design, build, test, and commission complete flame and gas safety systems that range from conventional panels to fault-tolerant, addressable systems. Our flame and gas detectors are globally certified to the latest product approval standards.

Whether your need is to monitor gas hazards in a large area or several discrete locations from a convenient central site, inControl Systems has a solution.

## Our products application include:

✔ Oil & Gas

✔ Petrochemicals & Refineries

✔ Chemical & Refrigeration Industries

✔ Power Plants

✔ Water & Wastewater Treatment

✔ Parking & Utility Rooms

✔ Commercial Sector

Made in Canada

# Gas **Detectors**

### **Infrared** Gas Transmitter / Sensor

ICSIR-2000 Series

- Industrial strength 'smart' sensor technology
- Specific % LEL or % volume of combustible gases
- RS-485, 4-20 mA and 0-10 VDC outputs
- Two 1 Amp SPDT form C relays
- Explosion proof, and duct mount enclosures
- Non-intrusive calibration and configuration with display unit

### **Toxic Transmitter / Sensor**

ICST-1000 / ICST-2000 Series

- Industrial electrochemical sensing technology
- H2S, CL2, CL02, SO2, HCN, CO, NO2, HCL, NO, H2, NH3, O3, O2, ETO etc. detection
- 4-20 mA output
- Explosion proof, weather proof, duct mount and general purpose enclosures
- Non-intrusive calibration, optional relays and RS-485

### **Combustible Transmitter / Sensor**

ICSC-1200 / ICSC-2000 Series

- Industrial catalytic bead sensing technology
- CH4, C3H8, H2, C2H2, C2H6, C4H10, C5H12 etc. detection
- 4-20 mA output
- Explosion proof and duct mount enclosures
- Non-intrusive calibration, optional relays and RS-485

### **Commercial Toxic / Combustible Transmitter / Sensor**

ICS5 Series

- Smart sensor technology allows pre-calibrated replacement of sensors
- Uses electrochemical, Catalytic bead and infrared sensors
- Backlit 3 line display
- Displays concentration, relay status, STEL, TWA and daily peak value
- Keypad on front and scrolling of different functions
- 4-20 mA, 2-10 V, RS-485, Modbus, BACnet
- 3 on-board user programmable relays standard
- Non-intrusive calibration
- Nema 4X enclosure, splash guard and duct mount available
- Wall mount with knockouts (2 knockouts on back and every side)
- Sealed sensor housing
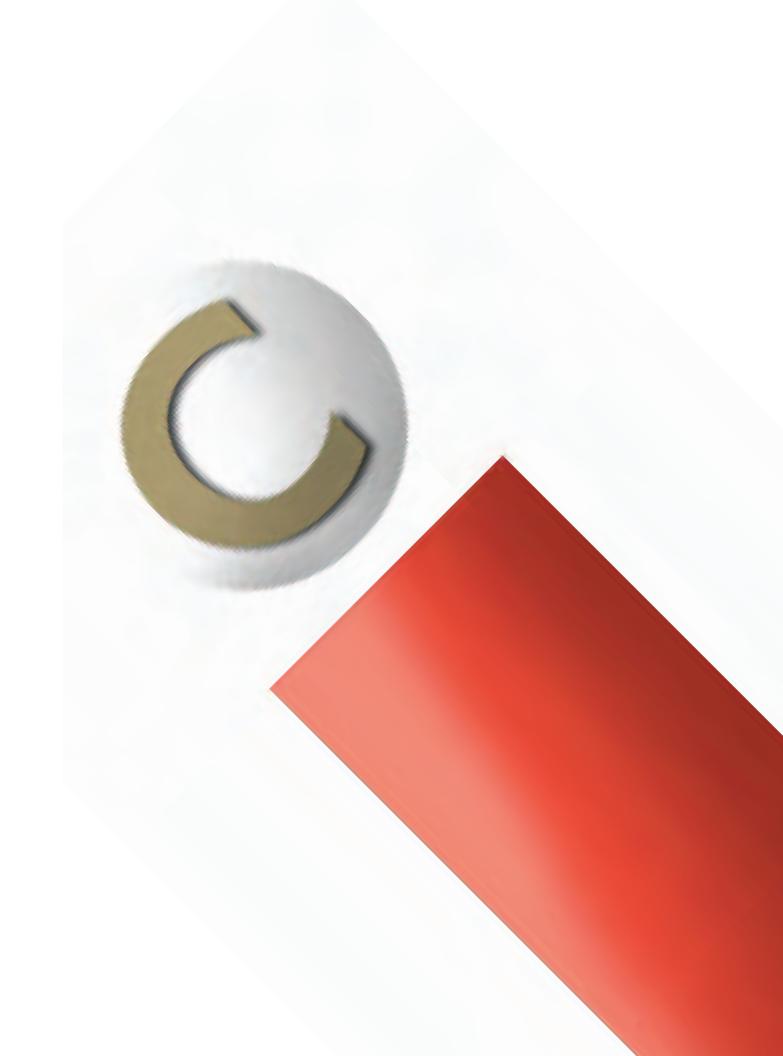- Removable terminal blocks for ease of installation

### **Commercial CO2 Transmitter / Sensor**

ICS-M10 Series

- Commercial infrared sensing technology
- CO2 range fully adjustable
- RS-485, 4-20 mA, 2-10 V outputs
- Two 1 amp SPDT form C Relays
- Wall or duct mount
- Push button controls for configurations

# Controllers

## i-Controller Series

- Accepts up to 30 RS-485 'daisy chained' sensors
- Accepts up to 8 of ANY 4-20 mA input
- Controls up to 99 DPDT form C relays
- Provides 8, 4-20 mA outputs
- Built-in LCD display and keypad
- Fully programmable, includes software
- Internet enabled, real time communications
- NEMA 1 or NEMA 4X enclosures

## i-Controller Accessories

- i-Switch, fully programmable and addressable manual relay overide switch
- i-Logger, data logger with removable flash drive for concentrations and events for all transmitters and relays
- i-Net, assigns an IP address to the i-Controller for remote real time reading, programming and data logging

## i-RAP Remote Annunciator Panel

- Display of gas concentration and relay status
- 4 fully addressable relays
- Separate horn, strobe and buzzer outputs
- Operates on RS-485 network
- Manual override of relays

## ICS4 Controller

- Four channel controller
- Display of concentration and relay status
- 4 fully addressable relays
- Separate on-board strobe, horn and buzzer outputs
- 4-20 ma retransmission available in averaging or peak modes
- Modbus output to external BAS

# Flame **Detection**

SharpEye Flame Detectors operate in the harshest environmental conditions and are self-contained, stand-alone devices. These devices are designed for direct connection to control and alarm systems or automatic fire extinguishing systems.

## 40/40 Series Flame Detectors

The exciting new range of 40/40 SharpEye detectors offer enhanced reliability and durability with a massive 5-year warranty and an enhanced detection distance.

## 20/20 Series Flame Detectors

The 20/20CTIx is a self-contained IR3 flame detector that also incorporates a color video camera. Thus the fire can be viewed and verified at a remote location. It detects a fire at up to 100 ft (30 m) in less than 10 seconds. The video signal output is available in either NTSC or PAL format.

## 20/20 Mini Flame Detectors

The 20/20 range also includes Mini IR3 and Mini UV/IR detectors which offer a lower cost, lower power, compact design in a general purpose (non-Ex approved) format. The 20/20MI IR3 is also available.

## Accessories

inControl Systems provides a range of accessories to ensure that your SharpEye Flame Detectors are installed and operating correctly.

# Open Path **Gas Detectors**

We offer several open path solutions:

## Hydrocarbon

The SafEye Series 700 and 200 Open Path Flammable Gas Detectors use our "flash source" technology to offer the highest reliability and availability with high immunity to false alarms from sunlight and stack flares.

## Toxic

For toxic gas detection, we offer the SafEye Series 400 with "flash source" technology for the detection of Hydrogen Sulfide ($H_2S$), Ammonia ($NH_3$) and aromatic hydrocarbons.

## Accessories

A Commissioning/Alignment Kit is needed on site to set-up and get your SafEye running, as well as for future checks.  We also offer an I.S. approved hand-held unit.

# inControl Systems Inc.

inControl Systems Inc. is a manufacturer and supplier of complete fire protection, fire detection, flame and gas detection systems.  Products and systems from inControl are available on a global basis for the complex projects of today's modern world.

**Supplying high quality, cost effective fire solutions to meet international regulatory approvals, for industrial, marine and offshore projects...this is what inControls does.**

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