

# STAND-ALONE SYSTEMS



## Central Gas Controller (SPC/MGC):

- Wall Mounted
- 4, 8, 16, 24 channel control systems to accept Gas Transmitters types (CO, NH3, NO2, Freon, CO2, O2, NH3, SO2, H2S Explosive/ Flammable)
- Built in fan logic controls (for Car Parks Fans)
- LON, I2C BUS Options (for 32, 48, 96 CO sensors)

## Safe-T-Sentry:

- Terrorism – CWA / TIC Monitoring (preventative and counter measure solution)
- Defence / Homeland Security
- Monitoring of Chemical Warfare Agents and Toxic Industrial Chemicals



## Cellar Alarm (CO2 / Oxygen):

- Stand Alone, self contained with integral IR CO2 and Oxygen Sensors
- 24 V AC/DC operation (230 V AC option plug-pack power supply)
- 4 x Relays for alarms / fans
- 1 x fault relay
- 2 x 4-20 mA analogue output for PLC, SCADA
- Wall mount, IP 65
- Range: 0-2000 PPM CO2 (option 10000 PPM CO2)
- Option: A-V Alarm

## Stand Alone Gas Alarms

(Car parks, LPG, Natural Gas, O2, CO2 and many other gases)

- Integral Gas Sensors (Remote Gas Sensors)
- Gases: CO, NH3, Explosive, NO2, CO2 (for DCV)
- Integral display (LCD)
- 4-20 mA Output for BMS
- Integral Relay and Display
- Stand alone operation for fan logic control or alarms
- For small car parks, garages, labs, uni, schools (Single channel controller)



## Air-Quality Sentry:

- Continuous monitoring of CO2, VOC, O2, CO, NO2, Oxygen, Flammable Hydrocarbons, Temp., RH
- Alarm generation, BMS output, fan control, data-logging option

## Stand Alone Gas Alarm/Control Modules:

- Integral Gas Sensors (Remote Gas Sensors), DIN Rail mounting
- Gases: Ethanol, Hydrocarbon and Toxic Gases
- Integral display , keypad
- 4-20 mA Output, 4 +1 relays
- Stand alone operation for fan logic control or alarms or shutting off solenoid valves

# SENSOR / TRANSMITTERS

## Gas Sensor / Transmitters (including for CAR PARKS):

- Gas Types: CO, NH3, Explosive, NO2, CO2, O2, H2S (VEFSA - Very Early Fire Warning-Products of combustion)
- 4-20 mA Output
- LON, I2C Bus option
- Trip Relay Option



## Gas Sensors/Transmitters:

- Plug-in sensor and PCB (easy service)
- Short circuit and reverse polarity protection
- For CO, NO2 monitoring in car-parks
- For Ex-Hydrocarbon (flammable gases) in 0-100% LEL
- Other gases: Cl2, H2S, NH3, SO2 and others
- 24 VDC, 4-20 mA output
- Housing Options: Stainless Steel, IP-65 with splash guards, Metal, IP 54, ATEX Hazardous Area Certified (Ex-Proof)





### Ammonia Refrigerant Sensor/Transmitter:

- Stainless Steel, IP65 with splash guard, IP54 or Metal housing options
- 4-20 mA analogue output, 24 VDC
- Range: 0-300/1000 ppm NH3 or 0-100 % LEL Ammonia
- Option : Relay board (DPDT, NO/NC) for A-V Alarm
- Option : Heater for Freezing -40 Deg C
- Option: Duct Mount Kit

### CO2 Monitoring (Breweries, Wineries, Refrigerant CO2 Leaks, CO2 capture & Storage, production/storage areas):

- IR CO2 Sensor/Transmitter
- 4-20 mA output for PLC or MSR Gas Controller
- IP 65 with splash guards
- Option of heater for freezing temperature (-40 Deg C.)
- Option of Stainless Steel Housing
- Range: 0-2000 PPM CO2 (option upto 10,000 PPM)
- 3 wire, 24 VDC, 4-20 mA

### Hazardous Area Sensors/Transmitters:

- ATEX Class 1, Zone 1 Certified
- Ex-Proof Housing
- 4-20 mA analogue output
- For flammable hydrocarbons, CO, H2S, O2 and other toxic and flammable gases
- For monitoring in ambient air, ground water contamination / soil contamination to meet EPA guidelines



### VEFSA (Very Early Fire & Safety Warning):

- Products of combustion monitoring for very early fire warning
- Duct mount option to go along with smoke, flame detectors to avoid false alarms
- Excellent for smouldering fires in buildings
- 4-20 mA, 24 VDC
- Option of Relay Board for A-V Alarm



### Duct / Room Air Quality Sensors (VOC – Mixed Gas):

- Volatile Organic Compounds – mixed gas (Broad Spectrum) sensor
- Duct mount or Room mount models
- 4-20 mA analogue output
- For cigarette smoke – H2 – CO – Ethanol – Ammonia etc

### Refrigerant Sensors / Transmitters:

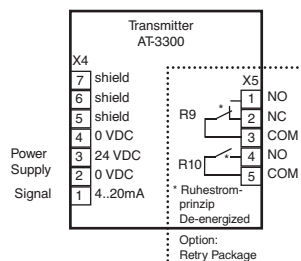
- Solid State sensors for leak detection for refrigerants
- 4 – 20 mA (for leak detection in chiller plants).
- Refrigerant types: R22, R123, R134a, R507, R410a, R411a, R401b, R402a, R402b, R408a, R409b, R404a, R416a



### Carbon Dioxide / Temperature Transmitter:

- State-of-the art non dispersive infra-red technology (gold plated)
- Display / Non-display versions
- Combined CO2 and Temperature sensors
- Direct connection to DDCs or Building Management Systems
- Demand Control Strategy (DCV) – reduced energy costs
- Internal automatic diagnostics (maintenance >5 years)

Note: In occupied air-conditioned rooms, a CO2 concentration of less than 1000 PPM should always be the aim (IAQ requirements)



### Option Relay Package AT-2R:

- For use in conjunction with PolyGard Gas Sensors/ Transmitters
- Comes factory fitted
- Provides two relay outputs with adjustable trip/set points for switching fans or A-V Alarms.
- Status of each relay is indicated by LED no. 9 for relay R9 and LED no. 10 for relay R10

# PORTABLES



## Cannonball3 Continuous Sample Draw Type:

- Gases: Hydrocarbon (LEL or PPM), O<sub>2</sub>, CO, H<sub>2</sub>S, SO<sub>2</sub>, Cl<sub>2</sub>, NH<sub>3</sub>, ClO<sub>2</sub>
- Built-in strong sample draw pump
- Remote sampling probe with 3 M tubing (quick connect)
- Option Alkaline battery (24 hours) or rechargeable NiMH (16 hours)
- Back-lit graphic display
- Excellent for Inert Atmospheres with dilution monitoring using dual pump

## Multi Gas Monitor (con-ined space):

- Portable multi gas alarm for con-ined space application
- Gases: LEL, O<sub>2</sub>, Duo-Tox (CO, H<sub>2</sub>S)
- Smart, pre-calibrated plug-in and play sensors
- One button operation and auto-cal
- Warning, danger, STEL & TWA Alarms
- Options: Alkaline or Li-Ion batteries, slip on pump, con-ined space kit, data-logging, vibrating alarm



## CO<sub>2</sub> Air-Quality Monitor:

- Portable, handheld with Alarm
- Gold Plated IR Sensor, Range: 0-3 % CO<sub>2</sub>
- LED and Audio Alarm
- 12 hours use rechargeable Li-Ion battery
- Sensor life expectancy: > 15 years
- Data-Logger: latest 8 hours TWA readings
- Dimension: 125 x 52 x 32 mm, Wt: 135 grams

## ToxiVision/ToxiPro Single Gas Smart Detector:

- For gases like Ethanol, Hydrocarbon (LEL %) and toxic / oxygen de-cency
- Built in rugged alarm and vibrating alarm
- Plug-in, play, smart toxic sensors
- One button operation, back-lit, loud alarm
- Choice of Alkaline or Re-chargeable batteries



# GasAlarm

## Gas Alarm Systems

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