

ZoneProtector



ZoneProtector Dual shown with Diffusion Sensors



ZoneProtector Quad shown with Sample Draw System

Many traditional small gas detection systems consist of several gas detectors, an alarm/readout controller and annunciators. **ZoneProtector** integrates all of these into a single compact unit to provide simple cost-effective solutions; especially for protecting small areas from gas leaks. The **ZoneProtector** provides simultaneous detection, display and alarms for up to four different gases. It supports local or remote mounted Electrochemical, Catalytic Bead, Infrared, and PID sensors for detecting toxics, combustibles and VOC's. It inherits all the features from the popular **ViewSmart** Dual/Quad controller, including powerful wired/wireless modbus communications and user-friendly configuration. When combined with a sample draw and conditioning system, such as R.C. Systems' **SampleSmart** products, **ZoneProtector** offers an economical way to detect multiple gases in many harsh and hard to reach areas.

FEATURES

- Compact NEMA 4 gas detection system with sensors, display and alarm
- Accepts inputs from up to four local or remote sensors
- Accepts discrete signal inputs from flow sensor
- Three adjustable independent alarm levels per channel
- Configurable alarm relay
- Acknowledge / silencing of audible devices
- Graphic LCD; numeric / bar graph / trend displays
- Alarm LED's and Strobe lights / piezo
- Modbus® master/slave RS-485 wired/ wireless serial ports
- Touch and magnetic keypad for non-intrusive operation
- Non-volatile memory retains all configuration data indefinitely
- Optional 4-20mA outputs
- Six additional 5 amp SPDT discrete channel alarm relays available (two are standard)
- Optional Wireless transmission
- Sample draw for pulling samples from remote/ harsh environments
- CSA Class I, Division 2, Groups A, B, C, D

Zone Protector Local Mount Sensor Options

SenSmart 1000 Series



Shown with Stainless Steel Enclosure



Shown with Sample Draw Cover



Shown with Diffusion Cover

SenSmart 1000 Series gas detectors mount to the bottom of the ZoneProtector enclosure and may be supplied with either diffusion or a sample draw covers. **SenSmart 1100/1200/1300/1400/1500** are complete 2 or 3 wire Gas Detectors available in UL94 flame retardant plastic, or, Class 1 Div 1 316 stainless steel enclosures. The **ZoneProtector** controller provides readout, calibration, and alarm functions for up to 4 sensors. In addition, our Sample Draw sample pump offers the ability to extract samples from hazardous or difficult to access locations.

SenSmart 1100 utilizes our electrochemical temperature controlled SMART sensors to transmit O₂, H₂S, SO₂, Cl₂, HF, HCL, NO₂ (to name a few) 2-wire 4-20mA gas values to the **ZoneProtector**. The **SenSmart 1200** (catalytic LEL), **1300** (Infrared LEL), **1400** (Infrared CO₂), **1500** (photoionization) each have "bridge" outputs to detect methane, propane, CO₂, BTEX, VOC's and many other compounds. Mix and match local and remote sensors to tailor the **ZoneProtector** to your application.

R.C. Systems takes pride in our "Systems Solutions" capabilities. Contact Applications Specialist today!

SenSmart FEATURES

- Field swappable sensor module. Range and target gas configured on sensor module
- Improves system noise immunity because low level sensor signals are protected within the sensor head
- Industry standard 4-20mA signal may be transmitted thousands of feet on 2-wires (1100)
- Missing or failed sensor forces <2mA FAULT signal (1100)
- Compatible with 1, 2, 4, 16 and 64 channel Receiver/Controllers (user calibration & readout are at the Receiver)
- 2-wire milliamp signal is nonpolar with protective "steering diodes" (1100)
- "Bridge" signals are compatible with all R.C. Systems controllers and transmitters