GAS DETECTION



Type	Input	Output
Gen 1 Sen	S	
4-20mA		S

SenSmart 2000

- LCD displays bar graphs and trends. Only 2-Wire monitor available with alarms and LED's indicating alarm conditions
- Gen 1 Smart Sensors keep gas type, range, calibration, T-Comp and other parameters on the sensor module
- Real time clock logs calibration and alarm events
- NRTL certified for use in Div 1 & Div 2 hazardous areas and intrinsically safe when installed with our 10-0263 barrier
- Easier to install & lower cost than other 3&4 wire products
- Calibration and other operator interface functions are performed non-intrusively with a magnetic wand



Type	Input	Output
Gen 2 Sen	S	
4-20mA	O	S
Bridge	S	
Web Ser		S
MB TCP	S	S
MB RTU	O	O
Relays		O

SenSmart 5000

- CSA Certification for Class 1, Div 1 and Class 1 Div 2 locations
- Color backlit LCD Display
- Display Color Changes with Alarm Status
- Generation 2 Smart Sensor Compatible for increased signal stability
- Remote Sensor Mount up to 4000'
- Heated elements available for low temperature
- Temperature Compensation
- Non-intrusive One-Man Calibration
- Temperature Compensation

ALARM CONTROLLERS



Type	Input	Output
Gen 1 Sen	S	
4-20mA	O	S
Bridge	S	
MB RTU		O
Relays		O

SenSmart 3000

- Single/Dual montior accepts 4-20mA or Gen 1 toxic/O2 and catalytic smart sensors with 4-20mA output per input
- Gen 1 Smart Sensors keep gas type, range, calibration, T-Comp and other parameters on the sensor module
- Non-Intrustive One Man Calibration with magnetic keypad
- Graphic LCD shows trends, bar graphs & Eunits
- Clock/Calendar stamps calibrations & alarms in real time
- Options include 5-amp relays with RS-485 Modbus, isolated 4-20mA outputs, 4-20mA outputs, 4-20mA input to one channel



Type	Input	Output
Gen 2 Sen	S	
4-20mA	O	S
Bridge	S	
Web Ser		S
MB TCP	S	S
MB RTU	O	O
Relays		O

SenSmart 6000

- Stunning, QVGA display indicates alarm status by color
- Gen 2 Smart Sensors keep gas type, range, calibration, T-Comp and other parameters on the sensor module
- Dual Channel 6000 inputs include Echem, bridge, 4-20mA, volts, Modbus TCP and Modbus RTU
- 3 alarm levels per channel with Acknowledge feature
- Standard Ethernet communicates Modbus TCP master/slave and serves embedded webpages for configuration and HMI
- Magnetic keypad allows "one man" sensor calibration in hazardous areas without area declassification

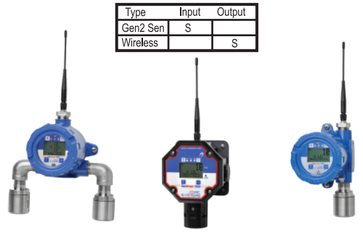
ENGINEERED PRODUCTS



Type	Input	Output
Gen 2 Sen	S	
4-20mA		S
Low Power IR	S	

SenSmart 4000

- Certification for Explosion Proof Class 1 Division 1 and Non Incendive Class 1 Division 2 Safe Installations
- Graphic display shows values, units, trend, bar graph, alarm levels
- Non-polarized 4-20mA loop powered interface eliminates wiring errors
- Two flashing Alarm LEDs with Programmable Alarm Levels
- Real time clock/ calendar flags alarm and calibration events
- Non-Intrusive, magnetic interface calibration sequence prompts the user through zero and span calibration. Span value is user programmable.
- Gen 2 Smart Sensor



Type	Input	Output
Gen2 Sen	S	
Wireless		S

SenSmart 7000

- 7000s are powered by a replaceable battery and are truly wireless. Life is typically >9 months and "LoBat" is transmitted
- Our Gen 2 Smart Sensors keep gas type, range, calibration, T-Comp and other monitor parameters on the sensor module
- Readouts include large Eunits, bar graphs and 1-hour trends
- Clock/Calendar time and date stamps most recent calibration
- 5 front panel LEDs indicate alarms and communication status

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Fire and Gas System Engineering

Technical Service and Support



Type	Input	Output
Relays		S/O
4-20mA	O	O
Bridge	O	
MB RTU	O	O
Wireless	O	O

ZoneProtector

- Accepts inputs from up to four local/remote sensors and discrete inputs from flow sensor
- Configurable alarm relays
- Graphic LCD; numeric / bar graph / trend displays
- Modbus® master/slave RS-485 wired/wireless serial ports
- CSA Class I, Division 2, Groups A, B, C, D



Type	Input	Output
Relays		S/O
4-20mA	O	O
Bridge	O	
MB RTU	O	O
Wireless	O	O

ViewSmart 400

- Accepts bridge, 4-20mA modbus and wireless SenSmart 7000 inputs
- Graphic LCD displays bar graphs, Eunits, and 30 minute trends
- Etherenet with Modbus TCP Master/Slave and web/email server for configuration and HMI monitoring/ notifications
- Two RS-485 ports allow simultaneous Modbus Master/Slave operation. Two optional isolated RS-485



Type	Input	Output
Relays		S/O
4-20mA	O	O
Bridge	O	
MB RTU		
Wireless		

ViewSmart 2150/2150S

- Accepts inputs from one(ViewSmart 2150S) or two local/remote sensors/ transmitters
- Large and bright 1" LED display
- Graphic LCD for configuration and displays with bar graphs, engineering units, and 30 minute trends
- Configurable Alarm relays
- Optional Modbus® slave RS-485



Engineered Systems

- RC Systems Inc. also specializes in systems engineered to customer specifications for unusual and difficult applications. Many of our standard products began as application specific designs believed to have market potential within the broader instrumentation market
- We are happy to quote special packaging, special product combinations and even special new designs to help customers satisfy the demands of their unique applications
- Feel free to contact one of our applications engineers to discuss your project



Type	Input	Output
Relays		S
Web Serv		O
Wi-Fi		O
MB RTU		O
MB TCP		O
Wireless	S	O

WLR WaveLink 32 Ch. Wireless Receiver

- Receives 32 7000s; displays values and processes alarms
- NEMA 4 & 4X Polyester, SS, painted & XP enclosures
- License free 900MHZ/ 2.4GHZ FHSS client and server network
- Eight 5 amp Form C relays are standard
- Time/Date stamped Event log records alarms, cal's etc.
- Options include Ethernet with web/email server, wired/wireless modbus slave, USB data Login, Wi-Fi access point and cellular



Type	Input	Output
Relays		S/O
4-20mA	O	O
Bridge	O	
MB RTU	S	S
Wireless	O	O

ViewSmart 1600

- 16 inputs from 4-20mA, bridge sensors, wired/wireless modbus or 7000 wireless monitors
- 3 alarm levels/LED's per channel with 4 standard configurable common relays and optional discrete relays
- Graphic LCD displays inputs in Eunits, bar-graphs & 24 hour trends. Diagnostics mode for testing relay & analog I/O
- Dual RS-485 ports, with wireless option, for simultaneous modbus Master/Slave operation
- Cal Mode offers push button zero/span calibration for direct sensor interface applications



Type	Input	Output
Relays		S/O
4-20mA	O	O
Bridge	O	
Web Ser		S
MB TCP	S	S
MB RTU	S	S
Wireless	O	O

6400 Panel/Rack Mount Shown

ViewSmart 6400

- 16-32-48-64 channel modes accepts inputs from many sensor types and signal ranges. Wired & wireless inputs accepted
- QVGA color LCD displays input data as trends, bar graphs and Eunits. Readouts change colors to indicate alarms
- Etherenet with Modbus TCP Master/Slave and web/email server for configuration and HMI monitoring/ notifications
- Two RS-485 ports allow simultaneous Modbus Master/Slave operation. Two optional isolated RS-485
- Data Logger onto SD card allows recording of minimum, maximum and average values for one year



Type	Input	Output
Relays		S/O
4-20mA	O	O
Bridge	O	
MB RTU	O	O
Wireless	O	O

Shown with VS400SS with quick connectors, red strobe, tripod & 30 watt solar

Rig Protector Permimeter Monitoring

- VS400 Site Controller accepts 4 inputs. Larger systems may utilize VS1600 16 channel as site controller
- Options include solar power and wireless modbus to send data on to larger VS1600 & VS6400 controllers
- 3 alarm levels per channel with 5 amp SPDT relays
- Graphic LCD readout displays monitored data as bar graphs, trends and engineering units
- Touch & magnetic keypad for non-intrustive operation in potentially hazardous areas
- Tripod mount offered for portable applications
- Touch & magnetic keypad for non-intrustive operation in potentially hazardous areas



SampleSmart XP

- Sample lines (Stainless Steel or Teflon) up to 300 ft. in less than 3 minutes
- Engineered for using in Class 1 Div. 1 locations
- Easy flow regulating with built-in flow meter and valve
- Loss-of-flow detected and indicated on readout
- Long lasting diaphragm pump with DC brushless motor



CD-F-300 Visual Flame Detector

- False alarm immunity
- Unrivalled 120° horizontal and 80° vertical field of view
- Range of 60 metres to an n-heptane 0.1m2 pan fire

FLAME DETECTION

WIRELESS SYSTEM

SAMPLING SYSTEMS

SUPERIOR SUPPORT

CUSTOM SOLUTIONS