The Art of Gas Detection
Flammable and Toxic Gas Detectors

Smart Alarm Controllers

Fire and Gas System Engineering

Technical Service and Support

WIRELESS SYSTEM

GAS & FLAME DETECTION

ALARM CONTROLLERS

ENGINEERED PRODUCTS & SOLUTIONS

SenSmart 7000

- WCMs 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

WLR WaveLink 32 Ch. Wireless Receiver

- Receives 32 WCMs; displays values and processes alarms
- NEMA 4 & 4X Polyester, SS, painted & XP enclosures
- License free 900MHz / 2.4 GHZ 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 logging, Wi-Fi access point and cellular

ST-97 Modem / Repeater Bridge

- Offered as ST-97R REPEATER & ST-97M MODEM
- ST-97R is equipped with 2 radios assigned to different networks. Signals received on one radio are retransmitted on second
- ST-97M is equipped with one radio and an RS-485 port. Bidirectional data is bridged between the RS-485 port and the radio’s RF link

WaveNet SST (Site Survey Toolkit)

- Scans airwaves for “In-Range” WaveNet networks upon demand and at power-up
- RSSI values are trended over time and indicated in dBm for each transmission
- Rx / Tx counters totalize missed data packets over time
- Rx mode may be used to “Snoop” RSSI readings from existing WaveNet networks
- Rx mode timer indicates time between received messages
- Tx mode offers channel 33 (unused by monitors) to allow testing wireless link without tripping the WLR’s alarms

WNR WaveRelayer Wireless Alarm

- Receives alarm status from up to 32 wireless WCMs
- Has 5 SPDT 5 amp relays with ability to “Zone” channels
- Diagnostics indicate wireless interface status to WCMs
- Configuration menus allow relays assigned for 3 alarm levels, Fail, Comm Error and low battery conditions
- “Quick Connect” option available to make adding our Alarm Bars quick and easy
- Powered from 10-30VDC; may be “Client” or “Server”

Strobe/Horn Alarm Bars

- AB2H / AB4H for Div 2 or AB2G / AB4G for general purpose
- Lights include Green-Steady, Amber, Red, Blue, Purple and Clear strobes. Power may be 10-30VDC
- Quick Connect option allows bars to be “daisy chained” to provide annunciation at multiple locations from the same WLR or WNR alarm relays. Div 2 rated Quick Connect Cables are offered in 3 meter, 6 meter and 15 meter lengths
SenSmart 3000
- Single/Dual monitor 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-Intrusive Once-Man-Calibration with magnetic keypad
- Graphic LCD shows trends, bar graphs, & Units
- Clock/Calendar stamps calibrations & alarms in real time
- Options include 5-amp relays with RS-485 Modbus, isolated 4-20mA outputs, 4-20mA input to one channel

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 ST-44 inputs include Echam, 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 classification

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 logger calibration and alarm events
- NRTL certified for use in Div 1 & Div 2 hazardous areas and intrinsically safe when installed with our 10-3263 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

ST-72 64 Channel Controller
- 16-32-48-64 channel modes accept 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
- Ethernet 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 & wireless ports
- Data Logger onto SD card allows recording of minimum, maximum and average values for one year

ST-71 Display/Alarm Controller
- 16 inputs from 4-20mA, bridge sensors, wired/wireless modbus or WaveCast 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-graps & 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

ST-90 / Quad Controller
- Accepts bridge, 4-20mA, modbus and wireless WCM inputs
- Graphic LCD displays bar graphs, Eunits, and 30 minute trends
- Three adjustable alarm levels per channel. Alarm LED's flash when new and become steady after acknowledged
- Two standard and 6 optional SPDT relays are configurable for HORN, HIGH, WARN or FAULT alarms
- Modbus Master/Slave RS-485/wireless port interfaces to PCs, PLCs, DCS, and other RC Systems controllers
- Touch and magnetic keypad are standard for non-intrusive operation in potentially hazardous locations

Rig Protector Perimeter Monitoring
- ST-90/Quad Site Controller accepts 4 inputs. Larger systems may utilize ST-71 16 channel site controller
- Options include solar power and wireless modbus to send data on to larger ST-71 & ST-72 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-intrusive operation in potentially hazardous areas
- Tripod mount offered for portable applications

Engineered Systems
- RC Systems Inc. also specializes in systems engineered to customer specifications for unusual and difficult applications. Many of our standard products begin 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