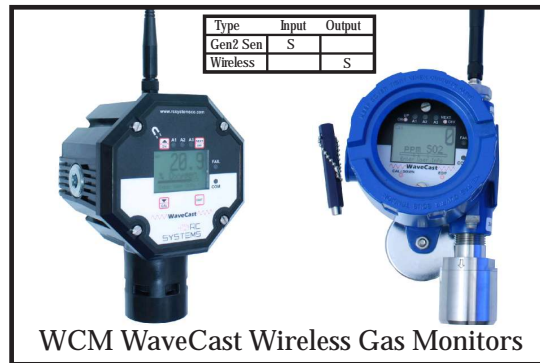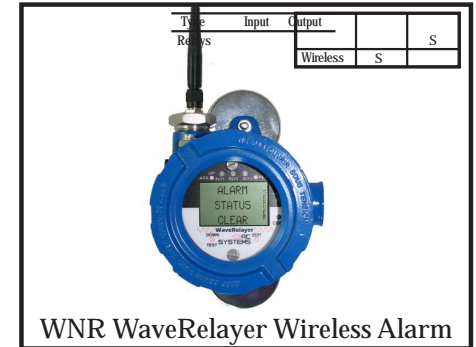| Type	Input	Output
Gen2 Sen	S	
Wireless		S

WCM WaveCast Wireless Gas Monitors

- 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

WaveNet SST Site Survey Toolkit)

Type	Input	Output		S
Relays				
Wireless	S			

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

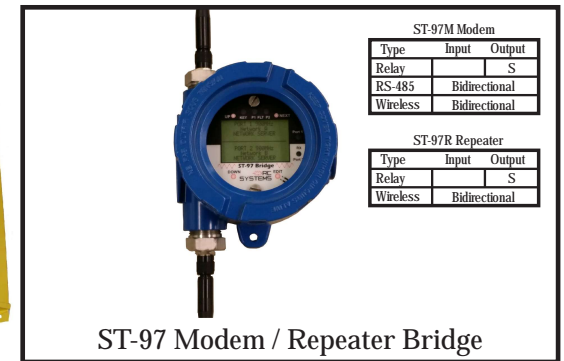- Powered from 10-30VDC; may be "Client" or "Server"

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

WLRSS 316 Stainless Steel Shown

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

Strobe / Horn Alarm Bars

ST-97M Modem

Type	Input	Output
Relay		S
RS-485	Bidirectional	
Wireless	Bidirectional	

ST-97R Repeater

Type	Input	Output
Relay		S
Wireless	Bidirectional	

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

RC SYSTEMS
GAS DETECTION PRODUCTS
CONDENSED CATALOG

ST-48 3-Wire Dual Monitor

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

- Single / Dual monitor accepts 4-20mA or Gen 1 toxic/O_2 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 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 input to one channel

ST-44 Dual Monitor w/ Color & Ethernet

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

- 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 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

ST-71 Display / Alarm Controller

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

ST-71SS 316 Stainless Steel Shown

- 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-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

RigProtector Perimeter Monitoring

ST-48EC 2-Wire Monitor

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

- 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

ST-72 64 Channel Controller

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

ST-72PM Panel/ Rack Mount Shown

- 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-90/Quad Controller

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

ST-90XP/QUAD NEMA 7 Shown

- 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

R C 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