

SENSIDYNE SENSOCAST

Wireless Gas Detection System



SENSIDYNE / FIXED GAS DETECTION
Industrial Health & Safety Instrumentation



Wireless Gas Detection System

The Sensidyne SensCast Wireless Monitoring System consists of 1-32 battery-powered SensCast Transmitters and at least one 32 channel SensCast Receiver. Receivers take advantage our NRTL certified and field proven hardware and newly designed firmware. A single Receiver Multi-Interface option module is all that is required to add data logging, second wired and wireless Modbus port, plus a Wi-Fi port with web-server. The Wi-Fi feature is especially exciting since it allows remote HMI functionality via any web enabled device. This means our Receivers allow responders to view real time and historical data on smart phones and tablet devices prior to entering a hazardous area!

The battery powered or hard wired wireless Transmitters are compatible with existing systems. Transmitter features include power On/Off via the magnetic wand, dual sensors, easy battery replacement, and the ability to separate the sensor up to 15 feet using a 4 wire sensor separation kit.

The new SensCast Wireless Monitoring System is designed for simple deployment of both permanent and temporary monitoring sites.

SensCast Detector



SensCast Receiver



FEATURES

Supports single or dual and local or remote "Smart" temperature compensated sensor modules

- Alarms, gas range and other parameters are stored in the Smart Sensor module and may be edited by the user. Changes are periodically broadcast to the SensCast Receivers to insure identical readings at all locations
- Allows restore of factory settings from Smart Sensor plus backup and subsequent restore of user settings if parameters are accidentally lost
- Password protected with LOW and HIGH security levels
- Easy to change lithium battery
- Three adjustable independent alarm levels per sensor
- Readouts include E-units, bar graphs, 1-hour trends
- "Legacy" setting makes SensCast devices compatible with Sensidyne Model 7100, 7200, and 9000 Controllers
- Magnetic mount option available
- License free 900MHz or 2.4 GHz FHSS client and server network
- 5 front panel LEDs indicate alarms and communication status
- Suitable for Division 2 hazardous locations
- Available either in rugged cast aluminum or economical and durable UL-94 injection molded enclosure

FEATURES

- Displays monitored readings and alarms from 1 to 32 SensCast Detectors
- Requires little setup since all channel parameters are periodically received from SensCast Sensors via the wireless network
- Includes 8 programmable 5-amp relays to control annunciation and mitigation devices
- "Acknowledge" feature allows audible devices to be silenced
- Displays large E-units and bar graph for each active channels
- Clock / Calendar time and date stamps "Event Log" sensor items including Power-Up, Alarms, Calibration and Com Errors
- 100-240 VAC or 10-30 VDC standard power making it ideal for solar powered installations
- 900 MHz and 2.4 GHz FHSS models
- Touch & magnetic keypads are standard for non-intrusive operation
- Password protected with LOW and HIGH security levels

Multi-Interface Option

- Wi-Fi access point for web enabled devices to view SensCast embedded webpages including real time and historical sensor readings, channel parameters, and remote setup capability
- Data logger stores more than 1 year of readings and alarm history
- RS-485 and wireless Modbus Slave port for transmitting SensCast data to our Model 7100 Sixteen Channel & Model 7200 64 Channel Controllers

Receiver Enclosure Options



NEMA 4
Powder Coated
Carbon Steel



NEMA 4X 316
Stainless Steel

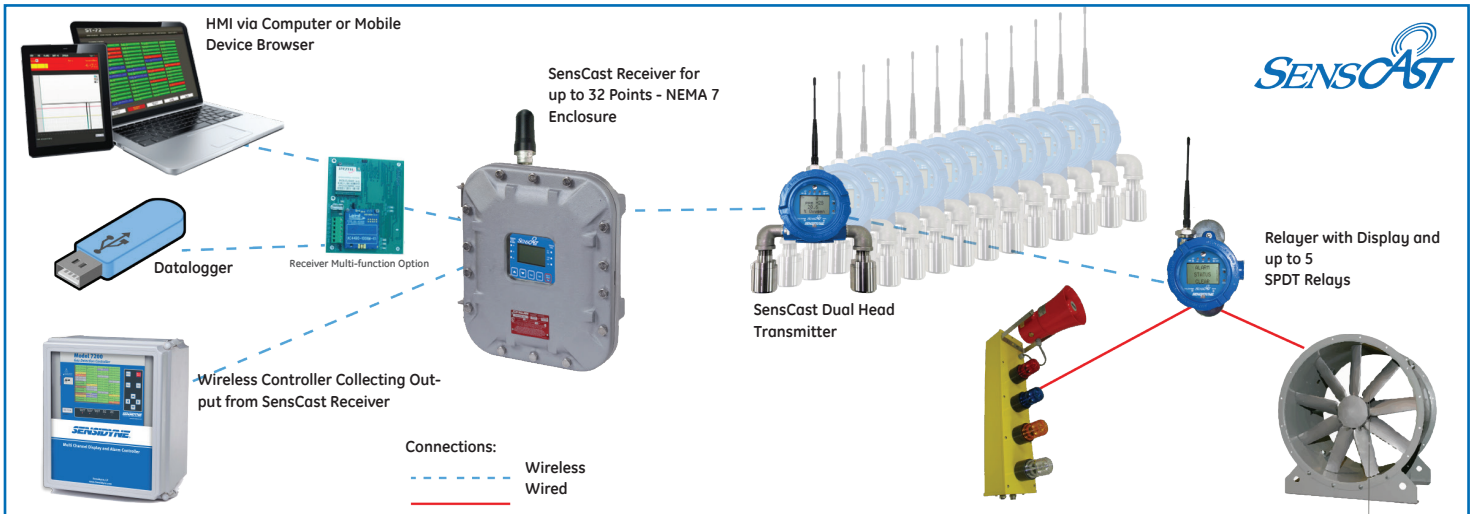


NEMA 7
Aluminum

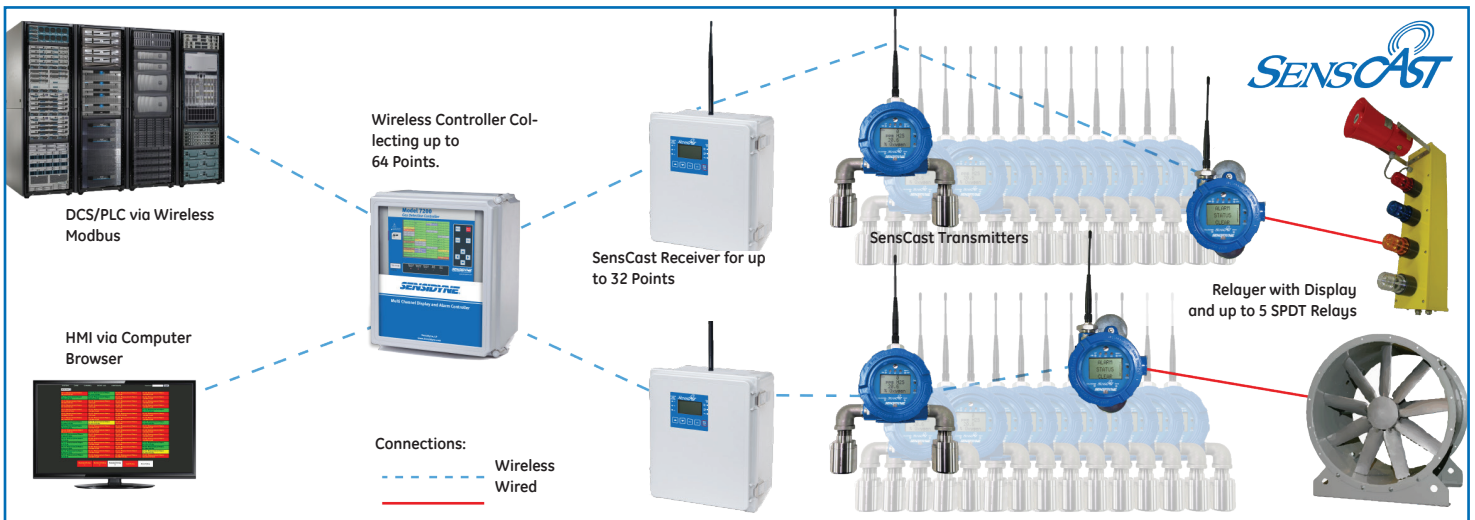


NEMA 4X
Polyester

Example SensCast System Configurations



Drawing 1: SensCast Transmitters transmit wirelessly to the SensCast Receiver. The Receiver sends Transmitter output via wifi or Modbus (wireless or wired). The SensCast Relayer actively “listens” for alarm or fault conditions and activates annunciators or hazard mitigation systems connected to one of 5 relays.



Drawing 2: Two independent networks consisting of a Receiver and 32 SensCast Transmitters (or 16 Dual Head Transmitters) exist in one facility. A Sensidyne wireless-enabled controller (Model 7200 shown) collects all 64 outputs sending them to a DCS or PLC via wireless Modbus. A SensCast Relayer actively “listens” for alarm or fault conditions and activates annunciators or hazard mitigation systems.

SensCast Accessories

Sensidyne has an offering of plug-in options for configuring a fit-for-purpose system and easily changing components as requirements vary. Other accessories are also available.



30 Watt solar power supply with 55AH battery; Div 2



Tripod



Yagi Antenna 2.4GHz

Straight Rubber antenna 900MHz and 2.4GHz



Antenna lightning Protector



Antenna Base Station 2.4GHz, Collinear



Yagi Antenna 900MHz



Antenna Base Station 900MHz, Collinear



Sun Shield for Improved LCD Readout Visibility



Four Light 10-30VDC Alarm Bar for Division 2 Hazardous Locations



Four Light 10-30VDC Alarm Bar for Ordinary Locations (Shown with three strobes)



Two Light 10-30VDC Alarm Bar for Division 2 Hazardous Locations



Two Light 10-30VDC Alarm Bar for Ordinary Locations



110 Decibel Horn Suitable for Division 2 Hazardous Areas



Stand, WaveCast Monitor



RP-TNC Low Coax Antenna Cable



Quick Connect Cable Sets



Power Supply, DIN Rail, 24VDC 50 Watt



WaveCast Transmitters Replacement Lithium Battery



Antenna, 2 dBi Dipole, Division 2



Receiver Multi-function Option



Multicolor Strobe

(Not Shown: Clear or Purple Strobes or Green Solid)

