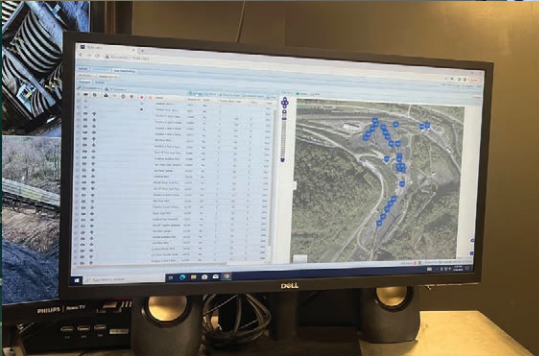


## Strata**CONNECT**

### Wireless Carbon Monoxide Monitoring System for Coal Preparation Plants

Completely Wireless & Battery-Powered





## WIRELESS CARBON MONOXIDE MONITORING

Strata's wireless carbon monoxide monitoring system for coal preparation plants is a fast-to-install, battery-powered system consisting of StrataConnect data nodes, carbon monoxide sensors, an alarm module, and a central server. The primary purpose of this safety system is early fire detection.

The network of gas detectors can be installed throughout the facility, particularly along belt lines and in the motor control center (MCC). They transmit real-time data over the StrataConnect Wireless mesh backbone to a central control server where it is monitored and managed remotely.

## BENEFITS

- Completely wireless and battery-powered for fast installation and recovery
- Hassle-free and cost-effective use and maintenance
- Fully operational during an event or power loss
- Pre-calibrated input sensing "eModules" for quick and easy removal and exchange. Calibration onsite or remote
- Fixed-point heavy-duty sensor and long-life battery
- Versatile with up to 64 different gas options (CH4, O2, CO2, H2S, ++)

## DATA TRANSMISSION & GUI DISPLAY

- Secure data transfer over StrataConnect wireless networks to a central control server and Graphical User Interface (GUI)

### Data displays include:

- Individual sensor operating status
  - Normal
  - Alert
  - Alarm
- Individual sensor maintenance status
  - Battery voltage
  - eModule status
  - Serial number status
  - Communications network connection
  - Date of last calibration

- Two-way communication for remote command and control of sensors
  - On/Off
  - Reading and setting I/O
  - Manipulate thresholds
  - Alarm activation/deactivation

## SENTRO WIRELESS SPECIFICATIONS

- Wireless gas detector for hazardous and harsh environments. MSHA-approved intrinsically safe (IS)
- Simple exchange of sensing module - up to 64 different gas options
- Large LED screen
- Built-in visual alarms
- Programmable alarm setpoints
- IP65-rated and EMC-protected
- Powered by four D-cell Energizer EN 95 batteries – 45 to 50 day life



## STRATACONNECT™ SERVER WITH GRAPHICAL USER INTERFACE

Multi-layered interface to toggle between system displays

Wireless Connection

Monitor Battery Voltage

Status Alert/ Alarm Status

Maintenance Status

Multiple layer map plotting location and displaying status of individual sensors.

\*Image showing Google Maps View

Name	Network ID	Alert	Sensors Num	Type	Value	Units	Date
Loadout ala	4971	No	1	N/A		N/A	
Control room	4972	No	1	N/A		N/A	
Feeders 4 A	12064	No	1	CO	0	PPHM	2024-03-26 19:41:05
Feeders 2 A	12066	No	1	CO	0	PPHM	2024-03-26 19:40:58
Feeders 1 A	12067	No	1	CO	0	PPHM	2024-03-26 19:40:21
Feeders 1 A	12071	No	1	CO	0	PPHM	2024-03-26 19:41:11
6th Floor H	12072	No	1	CO	0	PPHM	2024-03-26 19:41:11
Feeders 2 A	12082	No	1	CO	0	PPHM	2024-03-26 19:39:11
Bank Of Rd	12083	No	1	CO	0	PPHM	2024-03-26 19:40:52
Scalping Pul	12088	No	1	CO	0	PPHM	2024-03-26 19:41:22
Tail Clean C	12092	No	1	CO	0	PPHM	2024-03-26 19:40:52
4th Floor S	12101	No	1	CO	0	PPHM	2024-03-26 19:41:21
Loadout MCC	12142	No	1	CO	0	PPHM	2024-03-26 19:40:21
Houth Clea	12144	No	1	CO	0	PPHM	2024-03-26 19:41:11
Tail Of Clea	12151	No	1	CO	0	PPHM	2024-03-26 19:40:11
Feeders 4 A	12152	No	1	CO	0	PPHM	2024-03-26 19:40:40
4th Floor H	12155	No	1	CO	0	PPHM	2024-03-26 19:40:40
Feeders 3 A	12159	No	1	CO	0	PPHM	2024-03-26 19:40:52
Crain Coal	12160	No	1	CO	0	PPHM	2024-03-26 19:41:11
Loadout Hy	12161	No	1	CO	0	PPHM	2024-03-26 19:41:21
Top Of Tran	12188	No	1	CO	0	PPHM	2024-03-26 19:41:21
7th Floor S	12189	No	1	CO	3	PPHM	2024-03-26 19:40:52
Sample Bul	12170	No	1	CO	0	PPHM	2024-03-26 19:40:52
2nd Floor H	12177	No	1	CO	0	PPHM	2024-03-26 19:41:01
Loadout P6	12178	No	1	CO	0	PPHM	2024-03-26 19:40:11
1st Floor T	12179	No	1	CO	0	PPHM	2024-03-26 19:40:11

Sentro Wireless Technical Information	
Supply voltage:	6V DC from internal batteries
Wireless output signal:	915MHz
Alarm output:	Alarms can be selected to operate at two adjustable set-points with option for built-in visual alarms
eModule working life:	Over 12 months dependent upon eModule type and monitoring conditions
Operating temperature range:	-20 to +40 °C (-4 to +104°F)
Humidity:	95% non-condensing
Storage temperature limits:	-20 to +60 °C (-4 to +140°F)
Housing materials:	Reinforced polymer
Protection classification:	Housing dust and waterproof to IP65, Gas port protected to IP54
Weight:	1.4 kg (3 lbs)
Mounting:	By attachment point on the top of the housing
Certification:	Group I - IECEx, MSHA, EAC



# Wireless Carbon Monoxide Monitoring System for Coal Preparation Plants

Completely Wireless & Battery-Powered



## USA

8800 Roswell Road, Suite 145  
Sandy Springs, GA 30350 USA  
TF: 800-691-6601  
T: 770-321-2500  
T: 724-745-5030  
info@strataworldwide.com

## CANADA

Ontario  
North Bay, Ontario Canada  
Tel: (705) 978 2304