

COMPLIANCE SOLUTIONS

# BOILERSENSE-WI™ BOILER ROOM GAS DETECTION

## PURPOSE BUILT FOR THE WISCONSIN ADMINISTRATIVE CODE

CET's BoilerSense-WI™ gas detection solution complies with the Wisconsin Administrative Code for areas containing fuel-burning appliances to be equipped CO and combustible gas detectors and proper ventilation and equipment operation protocols.

Stay compliant, reduce risk, and safeguard boiler rooms. Trust the gas detection experts to keep your critical environment safe and secure.

## COMPLIANT, COMPLETE, SAFE

- **FCS-L-SW:** Multi Channel Controller with Modbus® or BACnet® WAN output to BAS
- **CGAS-D-CCH4-100:** Digital Methane Transmitter
- **CGAS-D-CO:** Digital Carbon Monoxide Transmitter
- **RSW-E:** Remote Switch with red push button
- **RSH-24V-R:** Remote Strobe/Horn Combo

Talk to one of our gas detection experts today to learn about compliant gas detection solutions.



*BoilerSense-WI, the complete solution*



**THE  
GAS DETECTION  
EXPERTS.**

WWW.CETCI.COM  
(877) 940 8741  
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# BOILERSENSE-WI: MEETING SPEC

- CO and combustible gas detectors are to be installed per manufacturer instructions
- If gas levels exceed thresholds, alarms activate inside and outside the room and trigger the ventilation system
- The manual switch may be located just inside the main entrance if approved by the department or authorized agent

## FCS Multi Channel System Controller

- Four 5A relays, audible alarm, touch LCD display with menu, zoning, logic control, and data logging
- Factory installed strobe and manual switch
- Modbus® RS-485 or BACnet® MS/TP output for BAS integration
- 90–240V AC power supply

## cGas Detector Digital Transmitter (CO)

- 0-200 ppm sensor range
- Modbus® RS-485 or BACnet® MS/TP output, 4-wire VAC/VDC
- Options: Relay, Low Temp Operation, Splash Guard

## cGas Detector Digital Transmitter (CH<sub>4</sub>)

- 0-100 %LEL sensor range
- Modbus® RS-485 or BACnet® MS/TP output, 4-wire VAC/VDC
- Options: Relay, Low Temp Operation, Splash Guard

## Remote Switch

- Manual push button control for mechanical/electrical shutdowns and activating horn/strobes

## Remote Strobe / Horn Combo

- Multiple alarm features in one device
- Independent settings for horn, strobe or horn and strobe together
- Three lens colours to choose from

## CRITICAL ENVIRONMENT TECHNOLOGIES



Flexible Control System (FCS)



cGas Detector (CO)



cGas Detector (CH<sub>4</sub>)



Remote Switch (RSW-E)



RSH-24V-R



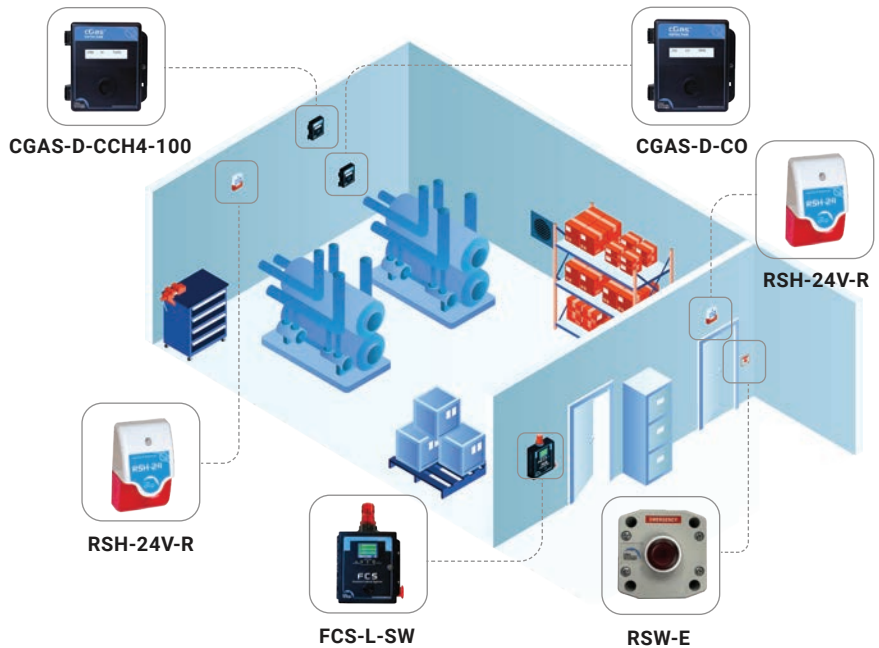
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## COMPLETE SYSTEM INTEGRATION BUILT TO MEET SPEC

- **FCS-L-SW** Controller w/strobe & manual shutoff switch
- **CGAS-D-CO** Detector Digital Transmitter
- **CGAS-CCH4-100** Detector Digital Transmitter
- **RSW-E** Remote Switch
- **RSH-24V-R** Remote Strobe & Horn



## WISCONSIN ADMINISTRATIVE CODE SPS 340, 341, 364 & 365

The Wisconsin Administrative Code does not have standalone sections titled “gas detectors in boiler rooms”, but mandates boiler safety interlocks (SPS 365.0631 and SPS 341.29), proper ventilation (SPS 364.0401 and SPS 364.070) and references national codes for specific gas detector type, placement and performance. SPS 340.40 states the adoption by reference to the ASME Boiler and Pressure Vessel Code (CSD-1), The National Board Inspection Code (NBIC) and NFPA 54 and 85.

For rooms containing fuel-fired boilers and pressure vessels, especially where carbon monoxide (CO) or combustible gases may accumulate, NBIC Part 1 states that gas detection systems should be installed per manufacturer instruction, include audible alarms inside the room and at entrances and be capable of general area monitoring, not just personal exposure. While NBIC does not specify exact thresholds for CO or combustible gases, it aligns with OSHA and NFPA standards, which recommend:

- CO alarms at 30 ppm or higher
- Combustible gas alarms at 20–25% of the

### Lower Flammable Limit (LFL)

The National Fuel Gas Code NFPA 54 Section 8.3.1.4 to 8.3.2.2.2 outlines the following requirements for combustible gas sensors in boiler rooms.

- Combustible gas indicators shall be listed and calibrated in accordance with the manufacturer’s instructions.
- Gas indicators shall numerically display a volume scale from 0 percent to 100 percent in 1 percent or smaller increments.
- Combustible gas detectors shall be capable of indicating the presence of fuel gas.

ASME CSD-1 requires a clearly marked, manually operated emergency shutdown switch or circuit breaker outside each boiler room door. For rooms with multiple entrances, a switch is needed at every door. Activating the switch must immediately cut off the boiler’s fuel or energy supply. Wisconsin’s SPS amendment allows the switch to be located just inside the main entrance if approved by the department or authorized agent.

It is the user’s responsibility to ensure compliance with applicable regulations. CETI is not liable for errors, omissions or misinterpretations. 12-25



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