

COMPLIANCE SOLUTIONS

# BOILERSENSE-MN™ BOILER ROOM GAS DETECTION

## PURPOSE BUILT FOR THE MINNESOTA RULES 1346.5311

CET's BoilerSense-MN™ gas detection solution complies with the Minnesota Administrative Rules for areas containing fuel-burning appliances to be equipped with a CO detector 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-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-MN, the complete solution*



**THE  
GAS DETECTION  
EXPERTS.**

WWW.CETCI.COM  
(877) 940 8741  
SALES@CETCI.COM



# BOILERSENSE-MN: MEETING SPEC

- If gas levels exceed thresholds, alarms activate inside and outside the room and trigger the ventilation system
- CO sensors are UL 2075 listed and installed as per manufacturer instructions
- Manual switch for shutdown of equipment outside the room

## 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

## 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)



Remote Switch (RSW-E)



RSH-24V-R



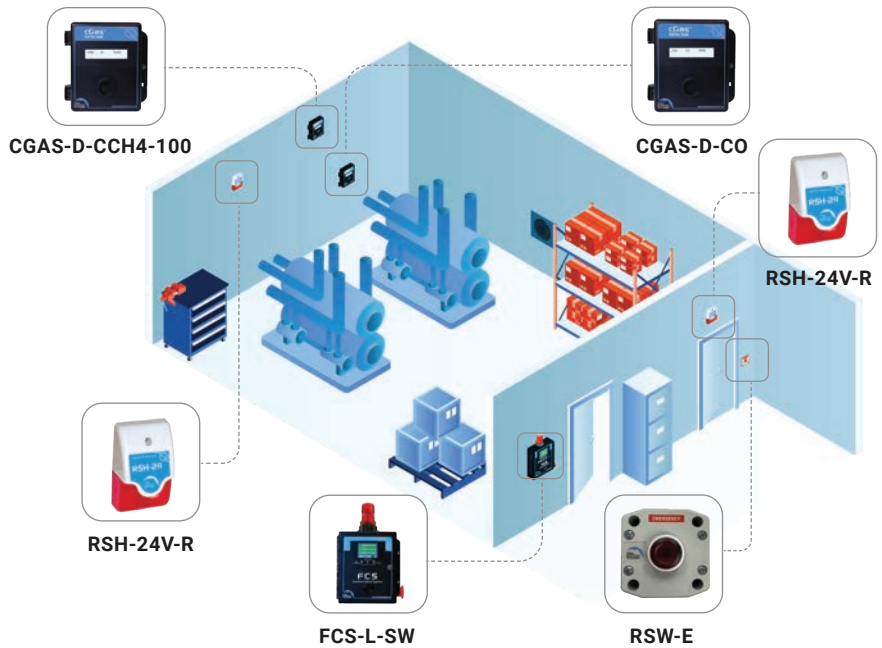
**THE  
GAS DETECTION  
EXPERTS.**

WWW.CETCI.COM  
(877) 940 8741  
SALES@CETCI.COM



## 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 (recommended)
- **RSW-E** Remote Switch
- **RSH-24V-R** Remote Strobe & Horn



## MN RULES 1346.5311, SECTION 311 & APPENDIX D (IFGS)

CO alarms must be installed in any new or existing room with a fuel-burning appliance that controls environmental conditions and produces carbon monoxide. These alarms must comply with Minnesota Rules Chapter 13093. Exceptions include:

- Boiler rooms regulated under Minnesota Rules Chapter 5225 (follow that chapter's CO alarm requirements).
- Buildings under the International Residential Code (follow Minnesota Rules Chapter 1309).

CO detection systems must be listed under UL 2034 for standalone alarms. Or UL 2075 for system-type detectors (e.g., integrated with building automation) and installed per manufacturer instructions, providing full coverage of the space.

Carbon monoxide alarms must be hardwired with battery backup, unless:

- The building lacks commercial power.
- The alarm is installed in an existing building.

Combination smoke/CO alarms are acceptable if listed under UL 2034 and UL 217. CO detection systems are also acceptable if they meet NFPA 720 and are listed under UL 2075.

Combustible gas detectors are recommended in boiler rooms where flammable gas accumulation is possible, though not required unless specified by the authority having jurisdiction (AHJ) or the equipment manufacturer.

Alarms should activate at 20% of the Lower Explosive Limit (LEL) for combustible gases and at 30 ppm for carbon monoxide (CO).

Detection systems must provide distinct audible and visual alarms near the boiler room, clearly different from fire or CO alarms. If gas levels exceed thresholds, alarms should alert occupants and may trigger ventilation or system shutdowns.

In case of detector failure, mechanical ventilation and a trouble signal are typically required.

It is the user's responsibility to ensure compliance with applicable regulations. CET is not liable for errors, omissions or misinterpretations. 10-25



**THE  
GAS DETECTION  
EXPERTS.**

WWW.CETCI.COM  
(877) 940 8741  
SALES@CETCI.COM

