

COMPLIANCE SOLUTIONS

BOILERSENSE-OK™ BOILER ROOM GAS DETECTION

PURPOSE BUILT FOR THE OKLAHOMA BOILER REGULATIONS

CET's BoilerSense-OK™ gas detection solution complies with the Oklahoma Boiler and Pressure Vessel Regulations for areas containing fuel-burning appliances to be equipped with CO and CH₄ 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-CO:** Digital Carbon Monoxide Transmitter
- **CGAS-D-CCH4-100:** Digital Methane 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-OK, the complete solution



**THE
GAS DETECTION
EXPERTS.**

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



BOILERSENSE-OK: MEETING SPEC

- CO and combustible gas detectors are to be installed per manufacturer instructions
- CO sensors are UL 2075 listed and installed as per manufacturer instructions
- Combustible gas detection must have distinct audible and visual alarms separate from fire or CO alarms

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 (CH₄)

- 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 (CH₄)



Remote Switch (RSW-E)



RSH-24V-R



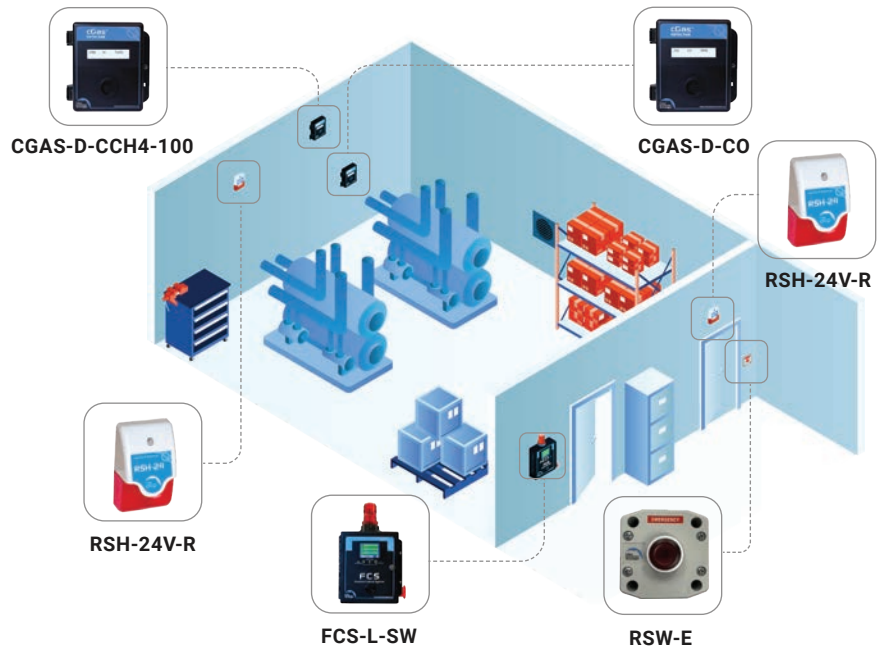
**THE
GAS DETECTION
EXPERTS.**

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
- **RSW-E** Remote Switch
- **RSH-24V-R** Remote Strobe & Horn



OKLAHOMA BOILER AND PRESSURE VESSEL REGULATIONS

The Oklahoma Boiler and Pressure Vessel Regulations does not explicitly mandate gas detectors in boiler rooms, but references NFPA 54 and the state adheres to other national standards such as The International Building Code (IBC), International Fire Code (IFC) and International Fuel Gas Code (IFGC) which also references NFPA 70 and 85.

For commercial spaces with fuel-burning appliances (such as a boiler room), installation of a CO gas detection system is required in new buildings and must be installed according to detailed requirements in IBC Sections 915.1.1 through 915.6. CO detectors are also required in spaces served by a fuel-burning forced-air furnace unless a detector is installed in the first room off each main supply duct and its alarm is connected to an approved central system. CO detection systems shall be listed in accordance with UL 2075 and must be maintained in accordance with the IFC. Regular testing of CO detectors is required, with initial and annual tests to ensure devices respond properly to the introduction of CO gas.

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.

Under IFC Section 916 if a commercial boiler room has the potential for methane release (e.g., natural gas-fired boilers), a methane gas detection system is needed. Distinct audible and visible alarms, separate from fire or CO alarms, must activate at a concentration exceeding 25% LFL for flammable gases and one half the IDLH for non-flammable gases.

Any additional response such as activating mechanical exhaust or shutdown protocols must be followed as required by the specific section of code referencing the need for gas detection.

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



**THE
GAS DETECTION
EXPERTS.**

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

