

COMPLIANCE SOLUTIONS

BOILERSENSE-KS™ BOILER ROOM GAS DETECTION

PURPOSE BUILT FOR THE KANSAS BOILER SAFETY ACT

CET's BoilerSense-KS™ gas detection solution complies with the Kansas Boiler Safety Act for areas containing fuel-burning appliances to be equipped with CO & CH₄ detectors as required 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-KS, the complete solution



**THE
GAS DETECTION
EXPERTS.**

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



BOILERSENSE-KS: 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 each door of 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

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



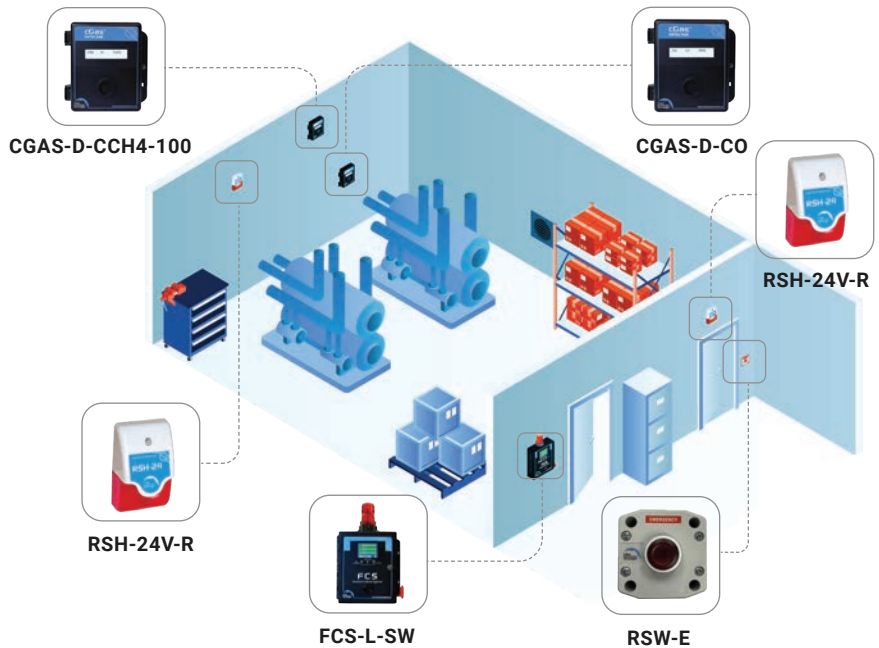
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COMPLETE SYSTEM INTEGRATION BUILT TO MEET SPEC

- **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



KANSAS BOILER SAFETY ACT (K.S.A 44-913 ET SEQ.)

The state of Kansas does not have a specific state code for boiler room gas detection. The Kansas Boiler Safety Act (K.S.A. 44-913 et seq.), references the NFPA 54 National Fuel Gas Code, the NFPA 85 Boiler and Combustion Systems Hazard Code and the ASME Boiler and Pressure Vessel Code. The state has also adopted the 2018 International Building Code (IBC) and other codes but only for state-owned buildings. Local jurisdictions (cities/counties) may adopt the 2018 IBC, but it's not mandatory statewide.

State-owned buildings with fuel-burning appliances, such as boilers and furnaces, must have carbon monoxide detectors installed. The detectors must be installed per manufacturer instructions and in accordance with the requirements in Sections 915.1.1 through 915.6, complying with NFPA 720 and UL 2075 for gas and vapor detectors. Sensors should be located where leaks may accumulate, with continuous sampling and immediate analysis. Distinct audible and visible alarms, separate from fire and CO alarms, must activate at a concentration exceeding 25% LFL. The gas detection equipment must be powered reliably and be inspected, tested and calibrated in

accordance with the International Fire Code.

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.

As per the ASME CSD-1 Standard, a clearly marked, manually operated emergency shutdown switch or circuit breaker must be installed just outside the boiler room door. For rooms with multiple entrances, a switch is required at each door. Activating the switch must immediately cut off the boiler's fuel or energy supply. door. Activating the switch must immediately cut off the boiler's fuel or energy supply.

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



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