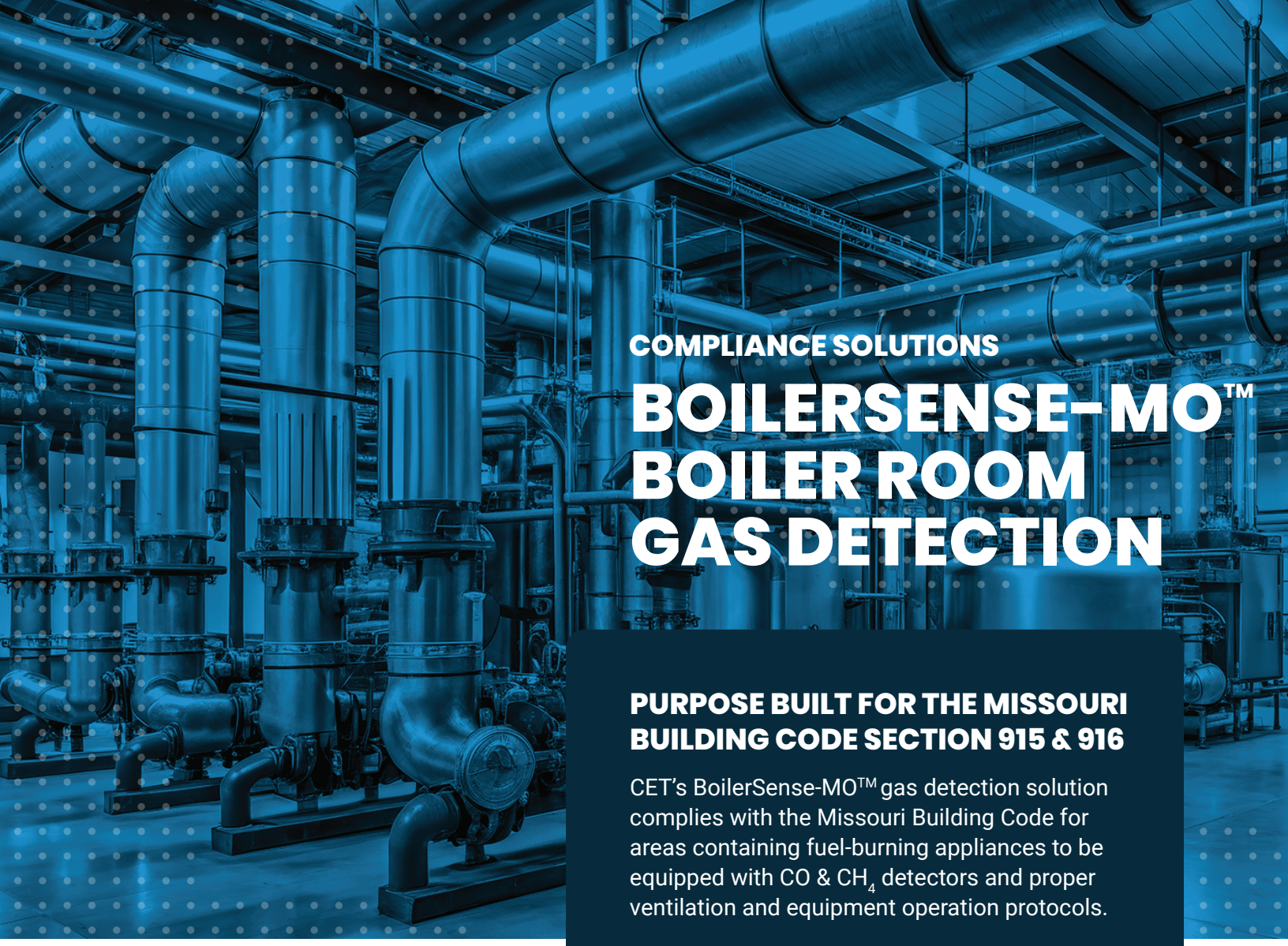

COMPLIANCE SOLUTIONS

BOILERSENSE-MO™ BOILER ROOM GAS DETECTION

PURPOSE BUILT FOR THE MISSOURI BUILDING CODE SECTION 915 & 916

CET's BoilerSense-MO™ gas detection solution complies with the Missouri Building Code for areas containing fuel-burning appliances to be equipped with CO & CH_4 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.

BoilerSense-MO, the complete solution

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.

Critical Environment Technologies

THE GAS DETECTION EXPERTS.

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

BOILERSENSE-MO: 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 (CH_4)

- 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_4)

Remote Switch (RSW-E)

RSH-24V-R

Critical Environment Technologies

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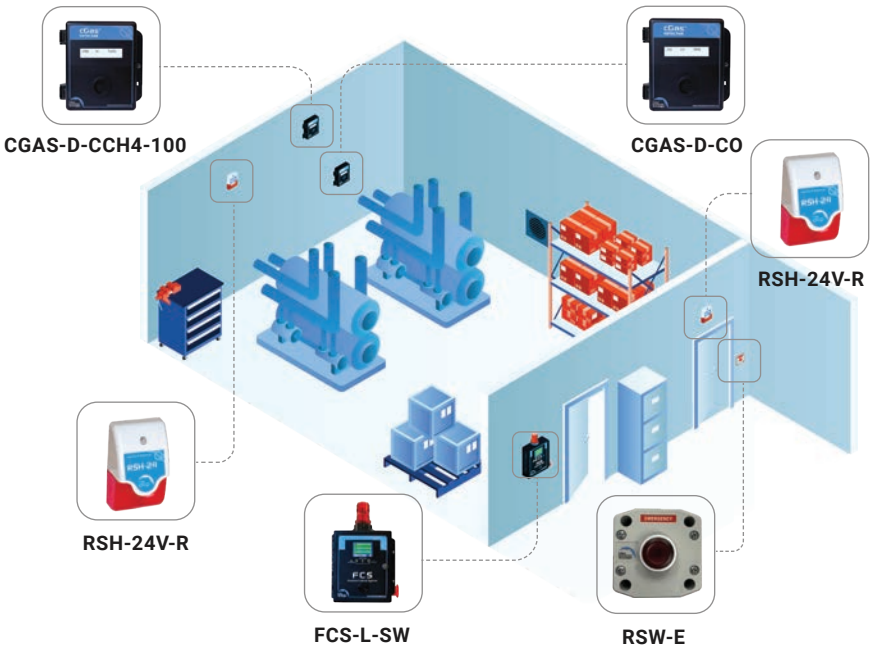
COMPLETE SYSTEM INTEGRATION BUILT TO MEET SPEC

- **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



MISSOURI BUILDING CODE SECTION 915 & 916

Missouri does not have a specific state code for boiler room gas detection, but its codes are based on the Missouri Building Code which adopts the International Building Code (IBC) and the Missouri Fire Code which adopts the International Fire Code (IFC).

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.

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 must be followed as required by the specific section of code referencing the need for gas detection.

The gas detection equipment must be installed per manufacturer instructions and powered reliably. Upon detection, systems may trigger ventilation or shutdown protocols to mitigate hazards.

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.