

# Combustion Monitor

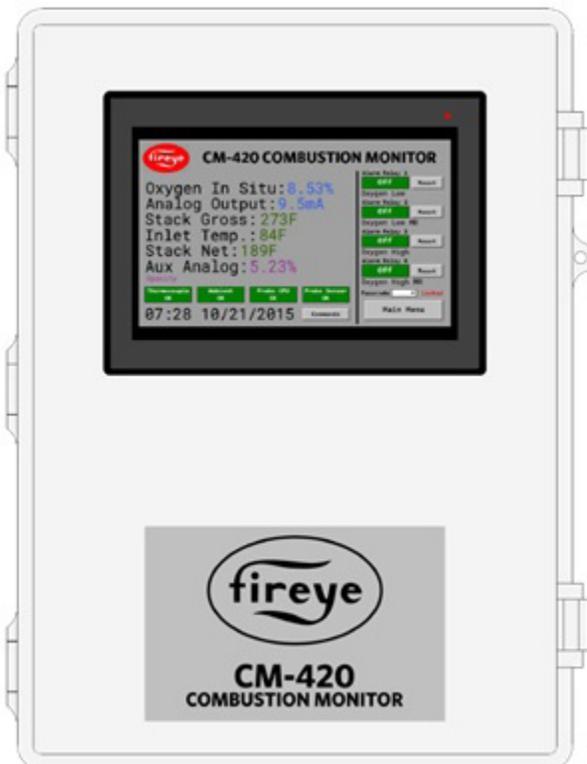


## CM-420

### Combustion oxygen measurement with 7" touchscreen interface

The CM-420 Combustion Monitor provides a 7" touchscreen interface to monitor the oxygen percentage in a stack. A 4-20mA output, Modbus TCP or Modbus RTU connection allows this measurement to be shared with a PLC, SCADA or building management system.

The NXCESO2 sensor used is a wide-band lambda sensor with a zirconium dioxide dual cell, with integrated heater and pump control. Probes are available in 216mm (8.5") or 407mm (16") insertion depths. Stack temperature is also provided by the integrated type-K thermocouple, allowing measurement up to 426°C (800°F). The sensor is self calibrating and is designed to be maintained without having to removed from the stack.



### Applications

The CM-420 Combustion Monitor can be used when an onboard means of oxygen monitoring is required.

The CM-420 Combustion Monitor is also well suited for fully metered oxygen trim applications when the 4-20mA output is connected to a PLC.

### Features

- 7" touchscreen interface
- Scalable 4-20mA output to represent oxygen percentage
- Optional 4-20mA input to measure inlet air temperature, to allow for net stack temperature display
- Additional 4-20mA input for auxiliary use (opacity, humidity, steam flow, etc.)
- Digital input for initiating oxygen sensor calibration
- Four programmable relay outputs to monitor oxygen, stack or auxiliary input levels
- Modbus TCP and Modbus RTU (RS233 or RS485) servers
- IP66/NEMA4X rated
- UL508A Enclosed Industrial Control Panel

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