

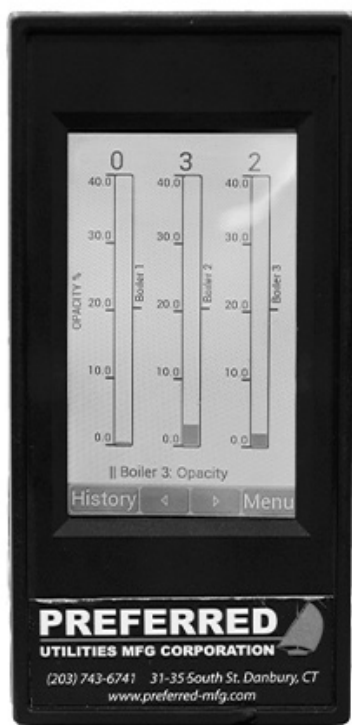
3-Stack Smoke Opacity Monitor

Model JC-33D2

106

The JC-33D2 Smoke Opacity Monitor assures accurate measurement of smoke emissions from boilers, incinerators, kilns, and similar sources of intermittent, visible emissions as well as an alarm contact that energizes when opacity exceeds a predetermined setpoint. Equipped with the updated automatic opacity calibration, allowing the JC-33D2 to calibrate without the need of personnel. The information provided encourages an increased emphasis on clean, efficient combustion and effective air pollution control. The JC-33D2 can monitor up to 3 stacks at once and works directly with Preferred's 190851D and 190851S LCD light source and sensor. · Automatic Calibration When Burner Cycles Off — explanation video here

- Monitor Up to Three Stacks at Once
- Auto-Calibration after each burner post-purge
- Easy to Use LCD Color Touchscreen
- Modbus RS-485 or Ethernet Communication
- 4-20 mA Retransmission
- 4 Digit Display, 200 Segment Bar Graph
- Single Pass Design, No Moving Parts
- Field Adjustable Using English Language Menus
- Early Warning Message and Relay Contact For Deteriorating Combustion Conditions
- Burner Safety Shutdown Message and Relay Contact
- Alarm Sequences: Standard & NYC/BAR



Specifications

Panel

Enclosures: 7.63"H x 3.56"W x 4.88"D

Power Supply: 120 VAC, +/- 15%, 50/60 Hz, 26 VA

Type: NEMA 12 Faceplate

Ambient Temperature: +32° to 131° F 0-55° C

Displays: Touchscreen

Status Messages: ALARM, SHUTDOWN, WARNING: CLEAN LENSES NOW EXCESS LIGHT

Alarm Setpoints: Adjustable 5-50%

Light Source and Light Sensor

Calibration: Automatic, Off-Line

Spectral Response: Photopic Peak and mean within 500-600nm

Angle of Projection: <5°

Operational Error: <5%

Span Drift: <2%

Zero Drift: <2%

Calibration Error: <1% (Linearity)

Response Time: <10 seconds for 95% change in opacity

Sighting Distance: 1 to 8 foot smoke duct. 3 to 10 foot optical path length

Wiring Distance: 500 ft. max (16 ga. wire)
250 ft. max (20 ga. wire)

Sensor Housing: 3/4" pipe mount