


OPAC20/20 SPECIFICATIONS

The OPAC20/20 meets all current and proposed EPA Design and Performance specifications in 40 CFR 60, appendix b, performance specification 1. Manufacturers' certificate of conformance (MCOC) included.

Operational:

Light source: green light emitting diode 

Accuracy: +/- 0.5 % opacity

Response time: < 3 seconds

Angle of projection: less than 4 degrees

Angle of view: less than 4 degrees

Resolution: 0.1 % opacity

Alignment sensitivity: +/- 0.35 degrees for 2% error

Spectral response: 99% of energy between 500nm and 600nm

Alignment verification: direct view port and electronic (electronic alignment tracking is continuous and will output an alarm when alignment drift exceeds 4% opacity.)

Calibration: automatic (hourly, non-interfering), output to recording device 1 to 24 hours selectable

24 hour drift:

Zero calibration drift: less than 1.0 %

Span calibration drift: less than 1.0 %

Calibration correction: automatic, recorded, displayable with alarm

Path length correction factor: automatic, user displayed, adjustable

External calibration: included (external zero jig and two neutral density filters)

Stack communications: RS- 422 digital link, impervious to ambient electrical noise.

Outputs: Two or Four linear analog outputs, two RS - 232 digital output, all outputs field selectable. Eight spdt alarm contact relays, all field selectable

Ranges: Fully field selectable, opacity, transmittance, optical density, calibration data, dirty window compensation.

Environmental:

Ambient temperature: - 30 to +140 F

Media temperature: maximum 1500 F

Pressure: - 10 up to + 10 inches H₂O

Moisture: dry to saturated (non condensing)

Path length: 2 to 32 feet standard (to 60 feet optional)

Electrical requirements:

Stack mounted weather enclosures: 15 vac / 30 amps (220v / 50hz available)

Remote control unit: 115 vac / 5 amps (220v / 50 Hz available)

Stack to control unit wiring: two shielded twisted pair for a digital link

Physical:

Weather enclosure mounting: customer supplied 4 inch 150 pound flange (adapters are available to mount to existing 6 inch 150 pound flanges)

Weather enclosure dimensions:

Transmissometer side: 22" wide x 30" high x 28" deep. 75 Lbs.

Retro reflector side: 22" wide x 30" high x 17" deep. 60 Lbs.

Remote control unit:

Height: 5.5 inches Width: 8.5 inches
Weight: 9.0 Lbs.

Depth: 8.0 inches

