



Model 6010 Dual Pass Opacity Monitor

The Model 6010, non-compliance Opacity monitor, is an optical instrument designed to measure visible opacity (0 – 100%) in exhaust gas for duct, stack or flue combustion applications.

Utilizing double pass transmission measurement technique in which a light beam emitted from the transceiver passes across the stack to a reflector. The returned light intensity is measured by the transceiver. A reduction in intensity is measured and presented as opacity (0 – 100%).

Building from the capability of the Model 6000 single pass monitor, the double pass measurement of the Model 6010 allows for the manual calibration using the optional calibration head and zero/span adjustments.

Available with or without a Controller Unit, the Model 6010 can be used as a stand-alone configuration using a laptop/pc and the Utility Software supplied.

With no moving parts, reliability is excellent and maintenance reduced to occasional cleaning of the TX and RX lenses. A latched head design provides easy access to lenses. An air purged body (blower recommended) provides the ability to further lengthen service intervals.

Ideal for applications including duct and tunnel monitoring as well as open space perimeter monitoring.

OPACITY MONITOR

KEY FEATURES:

- Long life green LED
- Compact, small packaging with built in air purge capability
- Modbus communication
- Low cost, low maintenance with no moving parts
- Simple installation and operation
- Rugged vibration resistant design
- Direct replacement for Fireye



CEMTEK INSTRUMENTS

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PRODUCT SPECIFICATIONS

Path Length (flange to flange):	1.6 ft – 39 ft (0.5m to 20m)
Measurement Range:	0-100% opacity
Accuracy:	± 2% full scale
Resolution:	0.1
Drift with Temperature:	± 2% over any 68 °F within operating range
Light Source:	Green LED
Voltage:	+24VDC (90 – 260 VAC available)
Current Consumption:	400mA nominal
Purge Air Supply:	Instrument Air or Blower (must exceed max stack pressure)
Measurement Gas Temp:	1,112 °F (600 °C)
Ambient Temp:	-4 to 122 °F (-20 °C to 50 °C)
Outputs:	Analog 4-20mA
Relay Contacts:	3A at 30VDC (level alarms)
Communication:	Serial (ModBus, USB, Ethernet)

ORDERING INFORMATION

MODEL 6010 DUAL PASS NON COMPLIANCE OPACITY

Choose from the following configurations/options to customize your own Model 6010

Path Length

S = Short (1.6 ft – 16)

L = Long (1.6 ft – 39 ft)

Controller Mount Style

N = No Controller

W = Wall Mount

P = Panel Mount

Voltage

A = 24VDC

B = 90 – 160 VAC 50/60 Hz

Transmitter/Receiver

A = Aluminum Air Purge Head

S = Stainless Steel Air Purge Head

Flange

A = ANSI 150, 1.5" Flange

Cables

T = TX/RX Interconnect Cable (150' Max)

R = RX/Controller Interconnect Cable (600' Max)

Your Order Code: 6010 _ _ _ _ _

*Flange Adapters available upon request

SERVICE OFFERING

To ensure trouble-free performance and reliability of all Cemtek Instrument products, we offer a comprehensive portfolio of service offerings at fixed cost pricing including; installation, training, support, extended warranty and preventative maintenance.

Visit us at www.cemtekinstruments.com.



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