

Custom Order Worksheet For EMS WatchDog Series Opacity/Dust Monitor

Contact: _____ Company: _____

Purchase Order #: _____ Log #: _____

Plant Location: _____ Information Supplied by(name): _____

NOTE: Please submit separate forms per monitor ordered.

The Opacity Monitor you have purchased will be individually built according to the information requested below. While utilizing a basic design, each unit is set up and adjusted to meet the requirements set forth by your parameters. The unit is then tested based on these strict requirements to be able to perform at these parameters. If the actual parameters are in fact not the same as those stated below, the unit would have to be returned, readjusted and retested at a significant cost. It is for this reason that we ask you to carefully fill out the information requested in this form.

This completed sheet should be sent to: EMS, PO Box 4340, Yalesville, CT 06492 or Fax 203-634-6663 or e-mail dbissoni@emsct.com for fastest delivery, otherwise a delayed delivery may be expected.

NOTE: These items below must be filled in! All measurements must be identified as Inches, Ft, mm, cm, etc. Please submit separate forms per monitor ordered.

Description	Selection
Unit identification (i.e., boiler 1, Unit 2B, etc.)	
Stack exit I.D. (A) on page 2:	
Flange - to - Flange distance (B) on page 2:	
I.D. at measuring point (C) on page 2:	
*Correlate opacity to "A" or "C" dimension?	
Sensor: 120 or 220 VAC (50/60 Hz)?	
Air Purge Blowers Power: 120 or 220 VAC (50/60 Hz)?	
Estimated Particulate (if pertinent)	Min _____, Normal _____, Max _____

* Correlation: At which point does the EPA want opacity readings reported: at the stack exit (A), or at the point of measurement (Sensor Location) (C)?

NOTE: If Modbus information is not filled in our default values will be used. Only Node I.D. is field selectable. Other parameters are fixed at time of final test according to the values given above or default. If changes to the communications are required after the system is shipped the control unit must be returned to the factory. All labor and shipping costs to make changes will be charged to the customer.

Description	Default	Selection
Baud Rate	9600	
Data Bits	8	
Parity	NONE	
Flow Control	NONE	
Timeout	1 Sec.	
Field selectable Node I.D.#	1	

All measurements must be identified as Inches, Ft, mm, cm, etc.

A, B & C are necessary.

(A) Measurement: EPA required dimension (O.P.L.R)

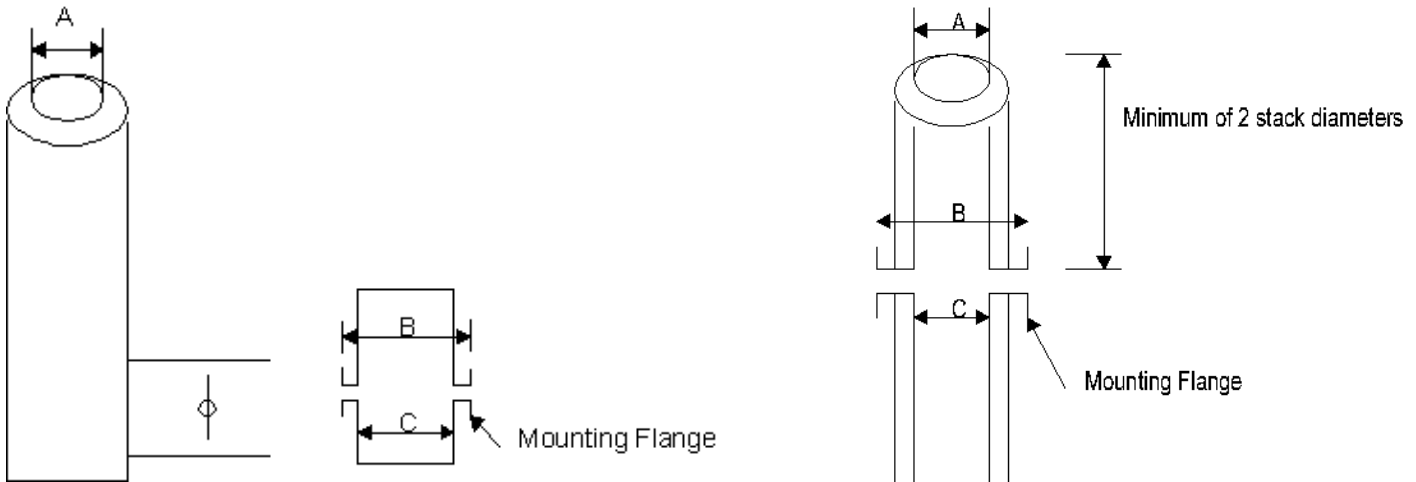
(B) Measurement: Min/Max: 36 inches (91cm) to 15 feet (4.5m). Note: Greater requires optional reflectors.

(C) Measurement: Ratio range of $A/2 \times C$ must fall between 0.3 and 1.5 (Over this range contact the factory).

The mounting flanges to the stack or duct O.D. should be a minimum of 6 inches to allow for installation of flange bolts.

Measurement tolerance A, B and C must be ± 1 inch (254mm) or 1% of the total whichever is the smaller. In all cases the mounting flanges are to be installed >2 exit diameters away from the stack exit because of Gas flow turbulence.

Choose the drawing that best fits the installation.



All EMS Opacity Monitor air plenums are designed to mount on a 3" 150# mounting flange. Flange adapters are available to mount our equipment on other size flanges. Please fill out the following information.

Is the Flange 150#, 300# or 600#? _____

Do the flange holes look like A, B, C or D? _____, if hole orientation is B or D, the flange adapters are required for proper installation. Please contact your sales rep for pricing.

What is the flange outer diameter? _____

What is the bolt circle diameter? _____

