

SMOKE DENSITY INDICATOR



The Unit has been designed to enable Industry to comply with the Clean Air Act and worldwide ships to comply with Canadian Shipping Air Pollution CRC, Vol. XV, C. 1404 and Alaska - 18 AAC 50.070, Marine Vessel Visible Emission Standards.

The product consists of Control Panel, Light Beam Projector, Photocell Receiver, Stack Adaptor, and the Intermediate Adaptor or Sealing Air Fan Box that clean air is supplied for Glass Cleaning.

There are two types of Control Panel, one is disclose type for the application of exposure area, the other type is for inside installation of Boiler Panel and any other Control Panel.

The Projector and Receiver connected to Intermediate Adaptor are mounted on opposite side of the chimney or flue preferably where a negative pressure exists thus reducing the necessity of frequent cleaning of the optical system.

The presence of smoke in the flue or chimney will cause changed electrical signal between the Projector and Photocell Receiver. The changed signal is analyzed by Control Panel and gives the information on the Digital Display. The Preset Alarm, Low and High alarm, can be adjusted easily to meet the regulation required per country.

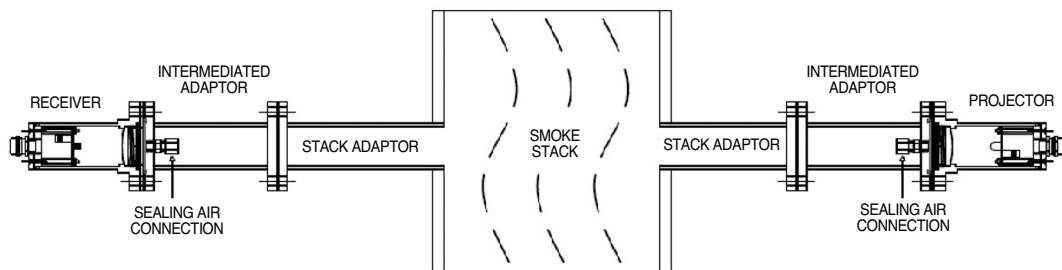
Key Features

- Digital Display
- Adjustable Time Delay
- Easy Cleaning and Removing
- 0.1% Resolution
- Easy Installation
- Low Maintenance Cost

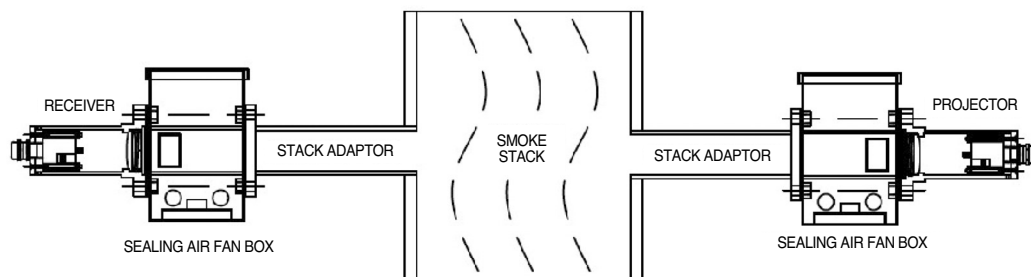
Technical Specification

Model	BI-SM2004	BI-SM3000
Range	0.0%-100% Smoke Density for Black & White Smoke	
Power Supply	AC110 & AC220 to 240V, 50/60Hz	
Dimension of Control Panel	290mm X 240mm X 120mm for Disclose Type 97mm X 97mm X 130mm for Boiler Panel Inside Installation	
Weight of Control Panel	5.5kgs for Disclose Panel/1.0kgs for Boiler Panel Installation	
Signal Output	4-20mA able to connect to ECR directly	
Sealing Air for Glass Cleaning	4mm of inner diameter hole from Forced Draft Fan.	
Adjustable Time Delay	0-60 seconds, Factory Set 15 Seconds	
Protection	Designed to IP65 for Disclose Panel	
Accuracy	-/+ 2% full scale detection (FSD) & Within -/+% of full scale in Calibration	
Resolution	0.1% Smoke Density	
Alarm Setting	Adjustable Low & High Alarm Factory Low Setting: 40% Smoke Density	
Zero Stability	Manual zero by one push button	
Relative Humidity	0 to 95% non condensing	
Calibration	Optical Filters to be provided for calibration	
Cleaning	Glass Cleaning by removing Projector/Receiver easily	
Sealing Air Fan	Not Included	Included
Optional	Recorder, Digital/Analog Indicator Date Logger System to follow the measured smoke density Alarm Repeater	

BI-SM2004



BI-SM3000



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