

Agasthya 2013 Series Dual Pass Transmissometer Dust Monitor Model BI 7010



Features

- ❖ Direct measurement in exhaust flue gas flow – In situ
- ❖ Dual Pass Light attenuation measurement for accurate reading
- ❖ Unit programmable in mg/m³, mg/Nm³, % Opacity
- ❖ RS 485, supports MODBUS protocol
- ❖ Rugged design with no moving parts so low maintenance
- ❖ Green LED source for long lifetime stability
- ❖ IP65 rating Enclosure
- ❖ Fail Safe Shutter

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Agasthya 2013 Series Dual Pass Transmissometer Dust Monitor BI 7010 is an optical instrument designed to measure the concentration of dust or particulate matter suspended in exhaust gas passing through a duct or stack of an industrial process.

Dust Monitor uses in situ cross-dust double pass transmission measurement technology. Light beam emitted from the transmitter passes across the stack to a reflector, which then return the light to the transceiver where the intensity of the received light is measured.

When calibrated against standard reference measurements, the amplitude of this signal relates directly to the particulate concentration in the stack, and can be used to present a reading in mg/m^3 . The advantage of it is that it is significantly less susceptible to drift with time, temperature or dirtying optics, than traditional dust monitors.

The BI-7010 has no moving parts and with SS body is of rugged design and has an excellent reliability record. With minimum maintenance and excellent performance BI-7010 dust monitor is best suited for dust concentration measurement.

Transmitter are supplied with an air purge facility which when connected to a high volume source of instrument quality air will resist particle deposition on the lenses for accurate measurement.

Application

- ❖ Aluminium
- ❖ Cement
- ❖ Distillery
- ❖ Fertilizers
- ❖ Iron & steel
- ❖ Oil refinery
- ❖ Petrochemical
- ❖ Power Plants
- ❖ Thermal Power Plants
- ❖ Sugar
- ❖ Tannery
- ❖ Zinc
- ❖ Copper
- ❖ Biomedical waste Incinerator
- ❖ Common Hazardous Waste Incinerator
- ❖ Boiler

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Technical Specification:

- ❖ Path Length : 1 – 20 m flange to flange separation
- ❖ Measuring Range : 0 – 100 % Opacity, 0 -1000 mg/m³ user selectable
- ❖ Units of measurement : mg/m³, mg/Nm³, % Opacity
- ❖ Accuracy : ±2% FSD
- ❖ Resolution : 0.1% Opacity, 0.1 mg/m³
- ❖ Drift with Temperature : ±1% /month
- ❖ Operating Wavelength : 510 – 540 nm Green LED
- ❖ Stack Temperature : upto 300° C
- ❖ Display : Keypad TFT Display
- ❖ Power : 24 VDC. 230 V AC optional on request
- ❖ Output : 4-20 mA Analog Output & 2 Nos. Relay Output
- ❖ Digital Communication : RS 485, Modbus
- ❖ Mounting : Wall
- ❖ Tx & Rx Junction Box Rating : IP 65
- ❖ Electronic Unit Enclosure Rating : IP 65
- ❖ Electronic Unit Ambient Temperature : 4 to 70° C
- ❖ Electronic Unit Operating Humidity : 5 – 95%
- ❖ Input normalisation for temperature, pressure, O₂/CO₂ parameters
- ❖ Provision for fixed keypad input, Provision for analog input
- ❖ Cable : 6 core screened cable of 0.5mm² - 8 meters between Tx & Rx & between RX & Electronic unit. Client to specify as per site
- ❖ Air Supply
 - Air Supply Pressure : 500 mbar. Must exceed maximum stack pressure
 - Air Supply fitting : 1" BSP
 - Air Supply : 5-10m³/h
 - Instrument Quality Air (Moisture / Oil / Dust free) to be provided at sampling point

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