

# Duct Mounted Indoor Air Quality Transmitter



Model: AI-IAQ-D



## Features

- Multi-parameter IAQ sensor measuring PM2.5, PM10, VOC, T, RH
- RS-485 Modbus Communication
- Durable ABS plastic duct mounting enclosure with duct clamp

Gain comprehensive insight on your indoor air quality with the Ace Instruments Duct Mounted Indoor Air Quality Sensor (AI-IAQ-D). Housed in a rugged duct type ABS plastic enclosure, the monitor is suited to measure temperature, humidity, PM2.5, PM10 and VOC levels. The device comes with built in RS-485 Modbus communication to monitor, record and transmit critical IAQ metrics to BMS.

The AI-IAQ-D is designed for hassle-free, continuous operation in HVAC ducts, it is the ideal solution for schools, offices, hotels, and commercial facilities seeking total building transparency and occupant wellness. Get reliable IAQ readings directly onto BMS systems, enabling total building insight.

Comprehensive indoor air quality monitoring range  
CO<sub>2</sub> | CO | Temp | Humi | VOC | PM | O<sub>2</sub>



Improve occupant comfort and building environment through IAQ monitoring in..



Retail spaces



Workspaces



Educational institutions



Auditoriums & museums

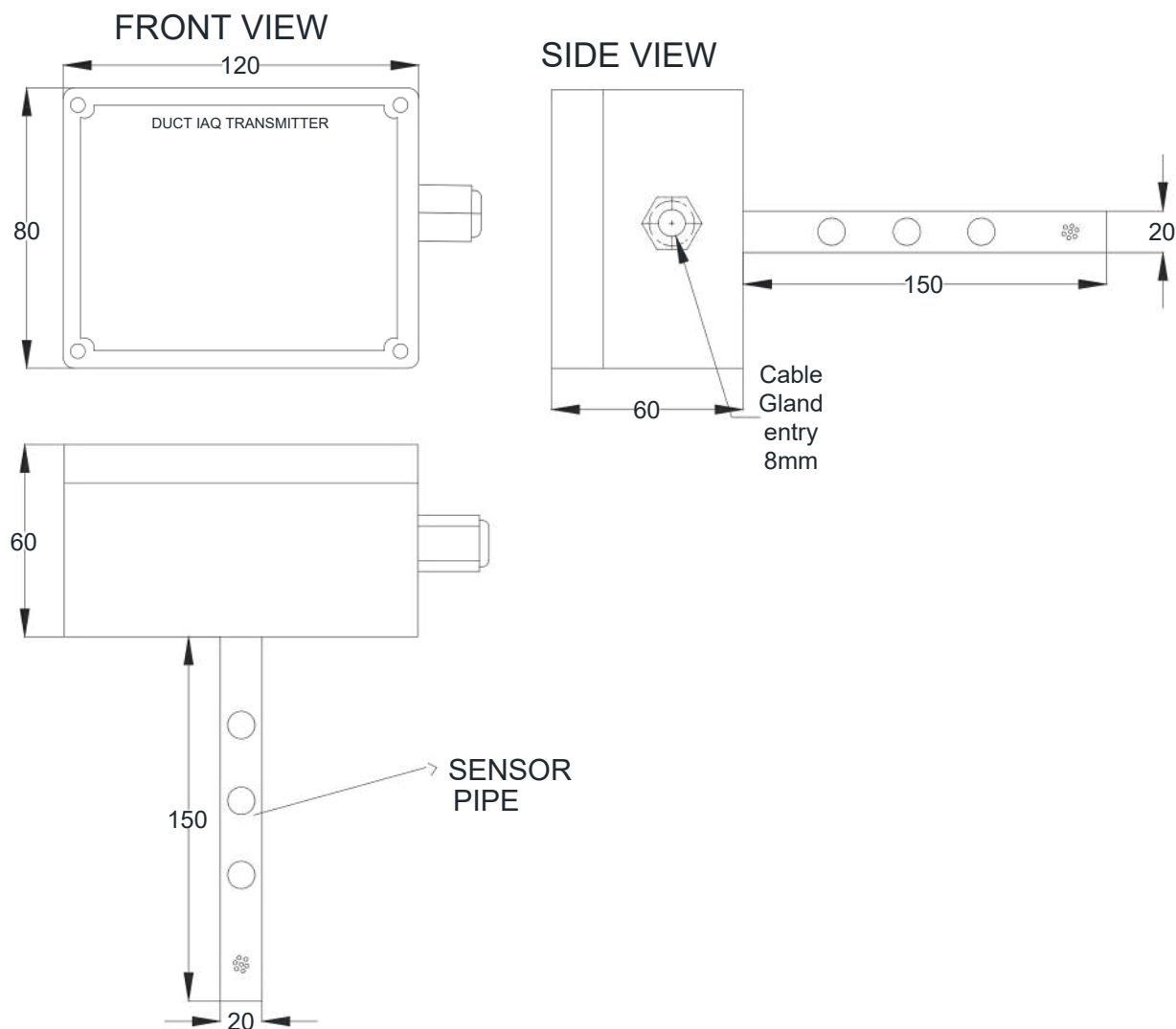
## Specifications

Measurement Parameters	PM2.5, PM10, VOC, Temperature, Humidity
Sensor	Built-in sensor for all parameters
Temperature	Measuring Range: 0 to 50°C Accuracy: $\pm 0.45^{\circ}\text{C}$
VOC	Measuring Range: 0-500 ppm Accuracy: $\pm 30\text{ppm}$
PM 2.5, PM10	Measuring Range: 0-1000 $\mu\text{g}/\text{m}^3$ Accuracy: $\pm 15 \mu\text{g}/\text{m}^3$ (when concentration is $<100 \mu\text{g}/\text{m}^3$ ) $\pm 15\%$ (when concentration is $>100 \mu\text{g}/\text{m}^3$ )
Humidity	Measuring Range: 0 to 100% RH Accuracy: $\pm 4.5\%$ RH
Communication	RS-485 Modbus
Enclosure	Duct mounting type ABS plastic enclosure with duct mounting bracket

## COMPLIANCE



CAD Diagram :



Wiring Diagram:

1	2	3	4	5
+	-	A	B	G
24V DC		RS 485 Communication		

Customize your IAQ solution with us today