

## IAQ-TEK® Outdoor Air Volume Measuring System

Model: IAQ3x1xx-xxx-x

This Quick Start Guide provides a brief description of the steps required to install, wire, and configure the IAQ-TEK® Outdoor Air Volume Measuring System. For details, refer to the individual product Submittal Drawings, User Manuals, and Job-Specific Requirements.

### APPLICATION

The IAQ-TEK Outdoor Air Volume Measuring System is comprised of an Airflow Probe(s), a Transducer, and an I/O Module with a touchscreen display. A secondary transducer and airflow probes can be provided for applications where an economizer mode, or equivalent, is required.

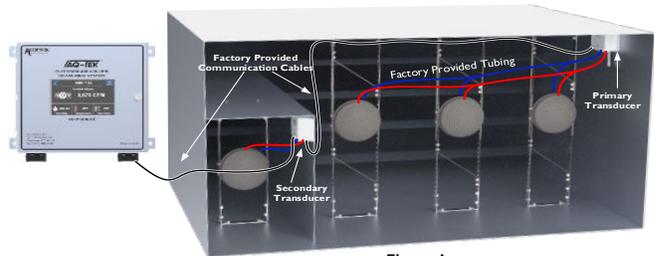


Figure 1

### STEP 1: TYPICAL INSTALLATION

**1a. Install the IAQ-TEK Airflow Probe(s)** centered, in front of the damper, but behind the louvers. Ensure that the side of the probe with the dimples is pointing towards the oncoming air. See Figures 2 and 3, below.

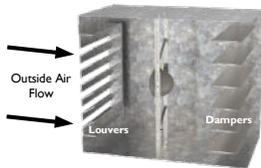


Figure 2

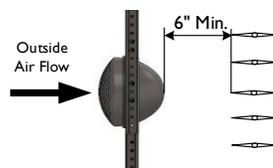


Figure 3

**1b. Install the IAQ-TEK Primary Transducer** inside the air intake plenum. See Figure 1 above and Figure 4 below.



Figure 4

**Warning:**  
Connections must point towards ground.

**Warning:**  
The Transducer must be mounted higher than the airflow probe(s).

**1c. Install the IAQ-TEK I/O Module** in an accessible location within range of the factory cable provided. The I/O Module can be installed in a mechanical room, control panel or inside of the air handler.

**Note:** A NEMA 4x enclosure is needed if the I/O Module will be exposed to wet or very dirty conditions.

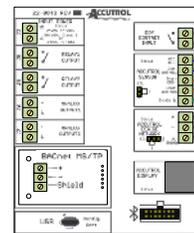


Figure 5

**Warning:**  
Do not install in direct sunlight.

### STEP 2: WIRING

Connections to the IAQ-TEK I/O Module will vary depending on the application requirements. The diagram below is provided as a general reference for a single transducer application. For detailed wiring requirements refer to the job-specific submittal wiring diagrams and IAQ-TEK Installation and Operation Manual.



Primary Transducer Only Installation

Figure 6

**2a.** Connect the tubing on the high- and low-pressure side of the airflow probe(s) to their respective brass fittings, labeled 'Hi' and 'Lo' on the Primary Transducer. If multiple airflow probes are installed, connect the respective tubes together (high-pressure vs. low-pressure) using the provided "T" Fittings.

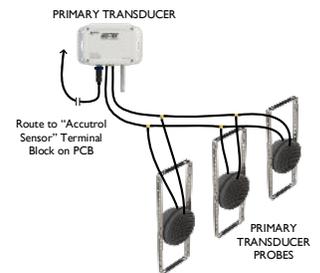


Figure 7

**2b.** For applications with a secondary transducer, connect the primary and secondary transducer together in series using the provided 23-0133 cable. The secondary transducer then wires directly back to the I/O Module.

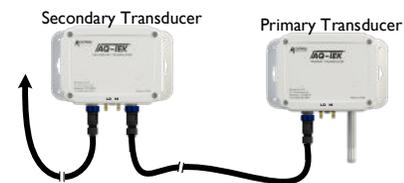


Figure 8

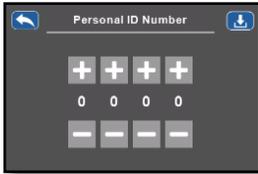
**2c.** If there is a Fan Interlock switch, this must be wired to the Dry Contact Input on the I/O Module.

### STEP 3: START-UP (I/O Module Display)

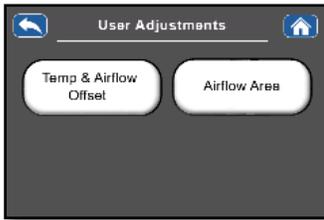
3a. Before proceeding, confirm the following items:

- ✓ Installation & wiring is completed and verified.
- ✓ Power is present at the IAQ-TEK I/O Module and verified to meet the specifications.
- ✓ Sufficient airflow is present.
- ✓ IAQ-TEK Display is on.

3b. Enter Personal ID Number (default = 1234)



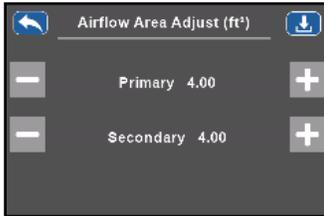
3c. Select an option to make User Adjustments, if necessary:



#### Temp & Airflow Offset\*



#### Airflow Area\*



\*Press the Save button  on each screen after a change is made before exiting.

3d. For further configuration, connect to the system with the IAQ-TEK Insight software (Step 4).

### STEP 4: START-UP (IAQ-TEK Insight)

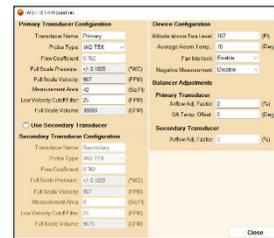
4a. Download IAQ-TEK Insight from [www.accutrolllc.com](http://www.accutrolllc.com), submit the key request, and complete the software installation per the instructions provided.



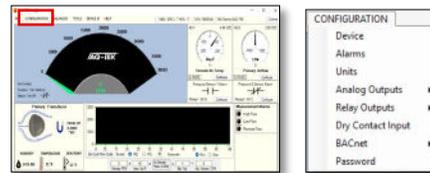
4b. Connect to the IAQ-TEK System using a USB cable or optional wireless (-W), open the IAQ-TEK Insight software & connect.



4c. Configure the IAQ-TEK by completing the Device Configuration window.

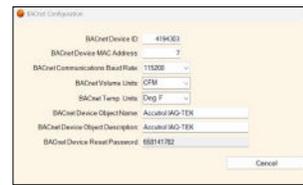


4d. From the Configuration Menu, select to configure the following options that apply:



- Select **Alarms** to configure the airflow alarms.
- Select **Dry Contact Input** to configure the Fan Interlock status if one is installed and required.

4e. Configure the device BACnet parameters by selecting BACnet from the Configuration Menu and completing the configuration form provided.



4f. If a password is to be required for the User Adjustments section on the touchscreen display, select **Password** from the Configuration Menu and configure the parameters as desired.

#### NOTE:

This quick-start reference is not intended to be used exclusively as a comprehensive guide for the IAQ-TEK Outdoor Air Volume Measuring System. For more details, refer to the IAQ-TEK User Manual, submittal drawings and job specifications to obtain the required operating parameters.