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# **Air Velocity Transmitter Quick Start Guide SP2**



Help Version updated till firmware SP456

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## What is the AKCP Air Velocity Transmitter?

AKCP offers this air velocity sensor or transmitter as a sensor that is designed to be mounted in air vents or air intake or outtake cooling ducts.

This sensor can measure the percentage of airflow and this reading can be displayed on our sensorProbe or securityProbe base units web interface. The measurements can also be graphed over time.

## Installation and Setup

The first step in setting up the air velocity sensor would be to mount the sensor in the air duct using the instructions included in the packaging for the sensor.

Next you would connect the RJ-45 connector from the sensor to the Intelligent Sensor port on the back of the sensorProbe8 base unit.

Now login to the units web interface as the Admin and proceed as follows;

Port	Type	Description	Reading	Status	Action	Graph
1	<a href="#">DC Voltage</a>	DC Voltage1 Description	0.0 Volts	Critical	-	<a href="#">View</a>
2	-	-	-	-	-	-
3	<a href="#">Relay</a>	Relay3 Description	No	Off	-	-
4	-	-	-	-	-	-

Summary Sensors Traps Mail Network System Help  
Auto refresh (sec.) 0 Start Online Status of Sensors Last Refresh: 10 secs  
Sys Log (0 messages)  
1 System Log Empty  
2  
3  
4  
5  
6  
7  
8  
9  
10  
< Prev Oldest Newest Next >

After logging into the base units web interface open the Summary page. The sensor will first be auto detected as the DC Voltage sensor and the status will be critical as shown in the screen shot above.

Click on the link in the Type column, the DC Voltage link.



Sensor Settings	
DC Voltage (Air Flow Sensor - Air Duct #1) on Port 1	
Port	1
Description	Air Flow Sensor - Air Duct #1
Current Reading	0 Air Flow
The Raw Analog [0-1000]	78
Status	Critical
Sensor Online/Offline	Online
Go Online/Offline	Online
Critical High	100.0 Air Flow
Warning High	70.0 Air Flow
Warning Low	50.0 Air Flow
Critical Low	20.0 Air Flow
Rearm	0.2 Air Flow
<input type="button" value="Save"/> <input type="button" value="Reset"/>	

In the sensors page shown above you can rename the Air Flow sensor to anything you wish and also set your thresholds for the alerts. I had already changed the advanced settings in the example and the reason the “Air Flow” is already showing.

The most important settings are in the Advanced Settings for the sensor which will be covered in the next screen shot on the next page.

Sensor Settings	
DC Voltage (Air Flow Sensor - Air Duct #1) on Port 1	
Display Units	Air Flow
Type of Scale	<input type="radio"/> Absolute <input checked="" type="radio"/> Percent of Full Scale
Selected Scale (Jumper 0)	10
Max Scale of Sensor in Volts [ 0 to 10 ]	5.0 Volts
Base Scale of Sensor in Volts [ 0 to 10 ]	1.0 Volts
How Many Percent at 5.0 Volts (Max Scale)	100.0 % ( Air Flow )
How Many Percent at 1.0 Volts (Base Scale)	0.0 % ( Air Flow )
<input type="button" value="Save"/> <input type="button" value="Reset"/>	

You can change the “Display Units” from Volts to Air Flow as shown above. Change the Type of Scale to Percent of Full Scale. Leave the Jumper setting at 10.

Then set the Max Scale of Sensor to Volts to 5.0 and the Base Scale of the Sensor in Volts to 1.0.

Now finally set the Percentage Max Scale to 100 and the Percentage at 1.0 Volts to 0.0. Save this.



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Summary		Sensors	Traps	Mail	Network	System	Help
Auto refresh (sec.) 5		Online Status of Sensors					Last Refresh: 4 secs
Port	Type	Description	Reading	Status	Action	Graph	
1	DC Voltage	Air Flow Sensor - Air Duct #1	34.5 %	Warning	-	View	
2	Siren	Siren Strobe Alarm #1	-	Siren Off	-	-	
Sys Log (240 messages)							
1	04/09/12 12:05:58 DC Voltage sensor on RJ45#1 is 26.2 %, status is now Low Warning						
2	04/09/12 12:02:09 DC Voltage sensor on RJ45#1 is 0.0 %, status is now Low Critical						
3	04/09/12 12:01:55 DC Voltage sensor on RJ45#1 is 4.2 %, status is now Sensor Normal						
4	04/09/12 12:01:35 DC Voltage sensor on RJ45#1 is 25.7 %, status is now High Critical						
5	04/09/12 12:01:33 DC Voltage sensor on RJ45#1 is 8.7 %, status is now Sensor Normal						
6	04/09/12 12:01:31 DC Voltage sensor on RJ45#1 is 10.0 %, status is now High Critical						
7	04/09/12 12:01:27 DC Voltage sensor on RJ45#1 is 6.7 %, status is now Sensor Normal						
8	04/09/12 12:01:02 DC Voltage sensor on RJ45#1 is 0.5 %, status is now Low Critical						
9	04/09/12 12:00:11 DC Voltage sensor on RJ45#1 is 20.0 %, status is now High Critical						
10	04/09/12 11:59:43 DC Voltage sensor on RJ45#1 is 0.5 m/s, status is now Low Critical						
<a href="#">&lt; Prev</a> <a href="#">Oldest</a> <a href="#">Newest</a> <a href="#">Next &gt;</a>							

Now we can see in the Summary screen the sensor, the reading and the status of our Air Flow.

This concludes the Air Velocity Transmitter Quick Start Guide.

Please contact [support@akcp.com](mailto:support@akcp.com) if you have any further technical questions or problems setting up your sensor.

**Thanks for Choosing AKCess Pro!**