

# Air Velocity Transmitters



## Features:

- Ranges to 15,000 fpm or 75 mps
- Optional LED display
- Easy, push-button set-up
- 4-20mA output
- Digital filter for signal damping

The **641** Air Velocity Transmitter is the ideal instrument for monitoring air flow. The transmitter uses a heated mass flow sensor which allows for precise velocity measurements at various flow rates and temperatures. Sixteen field selectable ranges means it is versatile enough for nearly all air flow applications. The optional LED produces a complete, low-cost solution for local indication of air flow.

## Specifications:

Service: Air and compatible, non-combustible gases  
 Temp. Range: -40 to 212°F (-40 to 100°C)  
 Accuracy: 32 to 122°F (0 to 50°C): ±3% f.s. process gas; -40 to 32°F (-40 to 0°C) & 122 to 212°F (50 to 100°C): ±4% f.s. process gas

Response Time: 1.5 sec. to 95% of final value  
 Temp. Limit: 32 to 140°F (0 to 60°C)  
 RH Limit: Non-condensing  
 Pressure Limit: 100 psi (6.89 bar) max.  
 Power Supply: 12-35 VDC, 10-16 VAC  
 Output Signal: 4-20mA, isolated 24V source, 3- or 4-wire connection  
 Output Filter: Selectable 0.5 to 15 sec.  
 Loop Resistance: 600Ω max.  
 Connections: Electrical: Screw terminal; Process: 1/2" NPT male  
 Mounting: Unit is not position sensitive; probe must be aligned with airflow  
 Weight: 12.6 oz (357g)  
**OPTIONAL DISPLAY VERSION**  
 Display: 4-1/2 digit, 0.5" high red LED  
 Resolution: 1 fpm, 0.1 mps  
 Weight: 13.3 oz (377g)

Model	Description	Price
<b>641-6</b>	AV Transmitter w/ 6" probe	<b>\$900</b>
<b>641-6-LED</b>	AV Transmitter w/ 6" probe & LED	<b>\$1103</b>
<b>641-12</b>	AV Transmitter w/ 12" probe	<b>\$900</b>
<b>641-12-LED</b>	AV Transmitter w/ 12" probe & LED	<b>\$1103</b>
<b>641-18</b>	AV Transmitter w/ 18" probe	<b>\$900</b>
<b>641-18-LED</b>	AV Transmitter w/ 18" probe & LED	<b>\$1103</b>
<b>641-24</b>	AV Transmitter w/ 24" probe	<b>\$900</b>
<b>641-24-LED</b>	AV Transmitter w/ 24" probe & LED	<b>\$1103</b>

# Air Flow Monitor

## Features:

- Used to measure and report on exhaust flow in many critical or controlled indoor environments
- Continuously monitors lab hood face velocity by measuring the air velocity of clean air from the room passing through the air inlet on the front of the monitor
- When face velocity drops below a user-determined level, the AirGard monitor activates an audible alarm, visual alarm, and relay output
- Jumbo LEDs indicate safe, marginal, or low duct exhaust and sounds an audible alarm during low face velocity conditions



- Analog bar graph to indicate face velocity, an optional digital velocity display to aid in the diagnosis of problem face velocities, and a high flow alarm to help detect excessive air velocity
- Reports unsafe face velocity conditions to a remote location by means of a relay output
- User configurable alarm delays
- Temporary and permanent horn silence
- Emergency purge
- Two point velocity calibration
- Flush mounted

## Specifications:

Measurement Range: 50 to 250 fpm (0.25 to 1.27 m/s)  
 Repeatability: ±10% rdg. or 10 fpm (0.05 m/s), whichever is greater  
 Power Supply: 9-30V AC/DC  
 Dimensions:  
 Face Plate: 5.25 x 3.0 x 0.625" (133 x 76.2 x 15.9mm)  
 Rear Enclosure: 3.0 x 2.0 x 0.5" (76.2 x 50.8 x 12.7mm)

Model	Description	Price
<b>AIRGARD-335-D</b>	AirGard Lab Hood Monitor	<b>\$724</b>