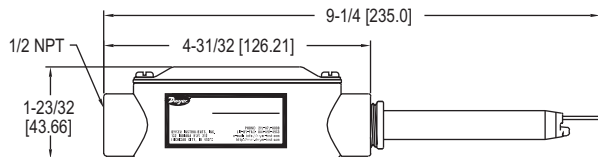


# AIR VELOCITY TRANSMITTER

Dirty Air Flow Applications



The **Series 641B Air Velocity Transmitter** uses a heated mass flow sensor suitable for dirty air flow applications. It has user-selectable ranges from 250 FPM (1.25 MPS) to 2000 FPM (10 MPS).

### FEATURES/BENEFITS

- SS sensor suitable for dirty air flow measurement
- Ranges from 250 FPM (1.25 MPS) to 2000 FPM (10 MPS)
- 4-20 mA output
- Digital filter for signal damping

### APPLICATIONS

- Exhaust stack flow monitoring
- Air control in drying processes
- HVAC air velocity measurements
- Fan supply and exhaust tracking
- Clean room ventilation monitoring

### MODEL CHART

Model	Description
<b>641B-4</b>	Air velocity transmitter
<b>641B-4-LED</b>	Air velocity transmitter with LED display

### SPECIFICATIONS

<p><b>Service:</b> Air and compatible, non-combustible gases.</p> <p><b>Accuracy:</b> 5% FS process gas: 32 to 122°F (0 to 50°C). 6% FS process gas: -40 to 32°F &amp; 122 to 176°F (-40 to 0°C and 50 to 80°C).</p> <p><b>Response Time:</b> Flow: 1.5 s to 95% of final value (output filter set to minimum).</p> <p><b>Temperature Limits:</b> Process: -40 to 176°F (-40 to 80°C). Ambient: 32 to 140°F (0 to 60°C).</p> <p><b>Humidity Limit:</b> Non-condensing.</p> <p><b>Power Requirements:</b> 12-35 VDC, 10-16 VAC. 1.5 A rating required on supply due to initial power surge drawn by transmitter.</p>	<p><b>Output Signal:</b> 4-20 mA, isolated 24 V source, 3- or 4-wire connection.</p> <p><b>Output Filter:</b> Selectable 0.5 -15 (seconds).</p> <p><b>Loop Resistance:</b> 600 Ω max.</p> <p><b>Current Consumption:</b> 300 mA max*.</p> <p><b>Electrical Connections:</b> Screw terminal.</p> <p><b>Enclosure Rating:</b> Designed to meet NEMA 4X (IP66) for non LED models only.</p> <p><b>Mounting Orientation:</b> Unit not position sensitive.</p> <p><b>Weight:</b> 12.6 oz (357.2 g).</p>
---	--

\*A brief current transient exceeding 300 mA may be seen on startup

### ACCESSORIES

Model	Description
<b>A-155</b>	Mounting gland with 1/2" male NPT fitting
<b>A-156</b>	Flange mounting plate with 1/2" female NPT