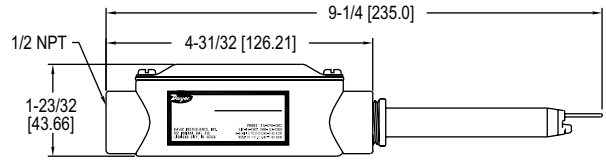




SERIES 641B

# 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).

**BENEFITS/FEATURES**

- Stainless steel 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

**SPECIFICATIONS**

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

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

MODEL CHART	
Model	Description
641B-4	Air velocity transmitter
641B-4-LED	Air velocity transmitter with LED display

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