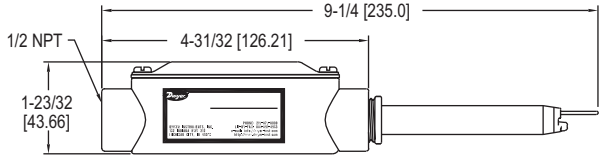
SERIES 641B

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).

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

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 & 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 (seconds).
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