The **Series 641 Air Velocity Transmitters** are the ideal instrument for monitoring air flow. This transmitter uses a heated mass flow sensor which allows for precise velocity measurements at various flow rates and temperatures. The 641’s 16 field-selectable ranges provides it the versatility to be selected for several air flow applications. The optional LED produces a complete, low-cost solution for local indication of air flow.

**FEATURES/BENEFITS**
- Ranges from 250 FPM (1.25 MPS) to 15,000 FPM (75 MPS)
- Optional bright LED display
- Easy push button set-up
- Compact housing
- 4 to 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:** Clean air and compatible, non-combustible gases.

**Accuracy:** 3% FS process gas: 32 to 122°F (0 to 50°C); 4% FS process gas: -40 to 32°F & 122 to 212°F (-40 to 0°C & 50 to 100°C).

**Response Time:** Flow: 1.5 s to 95% of final value (output filter set to minimum).

**Temperature Limits:** Process: -40 to 212°F (-40 to 100°C); Ambient: 32 to 140°F (0 to 60°C).

**Pressure Limit:** 100 psi (6.89 bar) maximum.

**Humidity Limit:** Non-condensing.

**Power Requirements:** 12 to 35 VDC, 10 to 16 VAC. 1.5 A rating required on supply due to initial power surge drawn by transmitter.

**Output Signal:** 4 to 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.

**Process Connections:** 1/2˝ male NPT.

**Enclosure Rating:** Designed to meet NEMA 4X (IP66) for non LED models only.

**Mounting Orientation:** Unit not position sensitive. Probe must be aligned with airflow.

**Weight:** 12.6 oz (357.2 g).

**Agency Approval:** CE.

### OPTIONAL DISPLAY VERSION:

**Display:** 4-1/2 digit 1/2˝ red LED.

**Resolution:** 1 FPM, 0.01 MPS (10 FPM @ 10,000 and 15,000 FPM ranges).

**Weight:** 13.3 oz (377 g).

### ACCESSORIES

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<td>Universal mounting plate 1/2˝ female NPT</td>
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<td>A-158</td>
<td>Split flange mounting kit</td>
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<td>641-LED</td>
<td>Field-upgradeable LED</td>
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### OPTIONS

To order add suffix: **Description**

- NIST Traceable calibration certificate

Example: 641-6-NIST