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

### MODEL CHART

<table>
<thead>
<tr>
<th>Model</th>
<th>Probe Length*</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>641-6</td>
<td>6” (152.4 mm)</td>
<td>$464.00</td>
</tr>
<tr>
<td>641-6-LED</td>
<td>6” (152.4 mm)</td>
<td>$594.00</td>
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<tr>
<td>641-12</td>
<td>12” (304.8 mm)</td>
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<tr>
<td>641-12-LED</td>
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<td>641-18</td>
<td>18” (457.2 mm)</td>
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<tr>
<td>641-18-LED</td>
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<td>641-24</td>
<td>24” (609.6 mm)</td>
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<td>641-24-LED</td>
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</tbody>
</table>

*Other probe lengths available contact factory.

### OPTIONS

To order add suffix:
- **-NIST**: NIST traceable calibration certificate $215.00

Example: 641-6-NIST

### 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

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>A-156</td>
<td>Universal mounting plate, 1/2” female NPT</td>
<td>$16.25</td>
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<tr>
<td>A-158</td>
<td>Split flange mounting kit</td>
<td>13.75</td>
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<tr>
<td>A-159</td>
<td>Duct mounting gland</td>
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<tr>
<td>641-LED</td>
<td>Field-upgradeable LED</td>
<td>130.00</td>
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