The new Series 641 Air Velocity Transmitter is 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**
- Ranges to 15,000 FPM or 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

**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 seconds 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. 1.5A rating required on supply due to initial power surge drawn by transmitter.
- **Output Signal:** 4 to 20 mA, isolated 24V 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.
- **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.

**OPTICAL 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).

**OPTIONAL ACCESSORIES**
- A-156, Universal Mounting Plate 1/2˝ female NPT
- A-158, Split Flange Mounting Kit
- A-159, Duct Mounting Gland
- 641-LED, Field-upgradeable LED

**Model**
- 641-6
- 641-6-LED
- 641-12
- 641-12-LED
- 641-18
- 641-18-LED
- 641-24
- 641-24-LED

**Probe Length**
- 6˝ (152.4 mm)
- 12˝ (304.8 mm)
- 12˝ (304.8 mm)
- 18˝ (457.2 mm)
- 18˝ (457.2 mm)
- 24˝ (609.6 mm)
- 24˝ (609.6 mm)

*Other probe lengths are available by contact factory.

**OPTION**
For NIST traceable calibration certificate, add suffix -NIST to model numbers. Example: 641-6-NIST.