The Series 641RM 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 641RM's 16 field-selectable ranges from 0 to 15,000 FPM (0.1 to 75 MPS) provide it the versatility to be selected for a multitude of applications. The unit's 6' cable which connects the sensing probe with the electronic enclosure allows the enclosure to be mounted where it can be more easily accessed. Longer cable lengths are available for ducts that are at very high elevations from the plant floor. The optional LED produces a complete, compact solution for local indication of air flow.

Model 641RM-12, Air Velocity Transmitter with 6’ cable
Model 641RM-12-LED, same as above with LED display

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

OPTION
For NIST traceable calibration certificate, add suffix -NIST to model numbers. Example: 641RM-12-NIST.

The Series 641B Air Velocity Transmitter uses a heated mass flow sensor technology. It has 4 user-selectable ranges from 250 FPM to 2000 FPM with corresponding metric ranges of 1.25 MPS to 10 MPS. The 641B provides an isolated 4 to 20 mA output signal: 4 to 20 mA, isolated 24V source, 3 or 4-wire connection.

Model 641B-4, Air Velocity Transmitter

ACCESSORIES
A-156, Flange Mounting Plate with 1/2” female NPT
A-155, Mounting Gland with 1/2” male NPT fitting

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

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 & 50 to 80°C).
Response Time: Flow: 1.5 seconds 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 to 35 VDC.
Output Signal: 4 to 20 mA, 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.
Mounting Orientation: Unit not position sensitive. Probe must be aligned with airflow.
Weight: 13.2 oz (374.16 g).
Cable Length: 6 ft (1.82 m).
Probe Length: 12” (30.48 cm) standard.
Probe Diameter: 5/16” (0.79 cm).

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: 13.9 oz (394.16 g).