The Series 641RM Air Velocity Transmitter with Remote Probe features the same highly accurate heated mass flow sensor as the Series 641, with a remote probe construction. The units 6’ cable which connects the sensing probe with the electronic enclosure allows the enclosure to be mounted where it can be more easily accessed.

**BENEFITS/FEATURES**
- Output signal conditioning with digital filtering
- Easy setup with on-board buttons

**APPLICATIONS**
- Exhaust stack flow monitoring
- Air control in drying processes
- Fan supply and exhaust tracking
- Clean room ventilation monitoring

**SPECIFICATIONS**
- **Service:** Clean air and compatible, non-combustible gases.
- **Accuracy:** 3% F.S process gas: 32 to 122°F (0 to 50°C); 4% F.S process gas: -40 to 32°F and 122 to 212°F (-40 to 0°C and 50 to 100°C).
- **Range:** 250 FPM (1.25 MPS) to 15,000 FPM (75 MPS).
- **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:** 12-35 VDC, 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.
- **Mounting Orientation:** Unit not position sensitive. Probe must be aligned with airflow.
- **Weight:** 13.0 oz (374.26 g).

**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).

## 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).

**BENEFITS/FEATURES**
- 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% F.S process gas: 32 to 122°F (0 to 50°C); 6% F.S process gas: -40 to 32°F & 122 to 176°F (-40 to 0°C and 50 to 80°C).
- **Range:** 32 to 122°F (-40 to 100°C).
- **Response Time:** Flow: 1.5 s to 95% of final value (output filter set to minimum).
- **Temperature Limits:** Process: 32 to 176°F (0 to 80°C).
- **Pressure Limit:** 100 psi (6.89 bar) maximum.
- **Humidity Limit:** Non-condensing.
- **Power Requirements:** 12-35 VDC, 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.
- **Mounting Orientation:** Unit not position sensitive.
- **Weight:** 12.6 oz (357.2 g).

**ACCESSORIES**
- Mounting gland with 1/2” male NPT fitting
- Flange mounting plate with 1/2” female NPT fitting

## CALIBRATION SERVICES AVAILABLE

For a standard 12” probe.