



FLOW

AIR VELOCITY TRANSMITTER

641RM SERIES

DESCRIPTION

The **Dwyer 641RM Series** 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 0-250 to 15,000 FPM (0-1.25 to 75 MPS) provide it the versatility to be selected for a multitude of applications. The unit's 6 ft. 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.

NEW!

Dwyer®



CE

641RM Series

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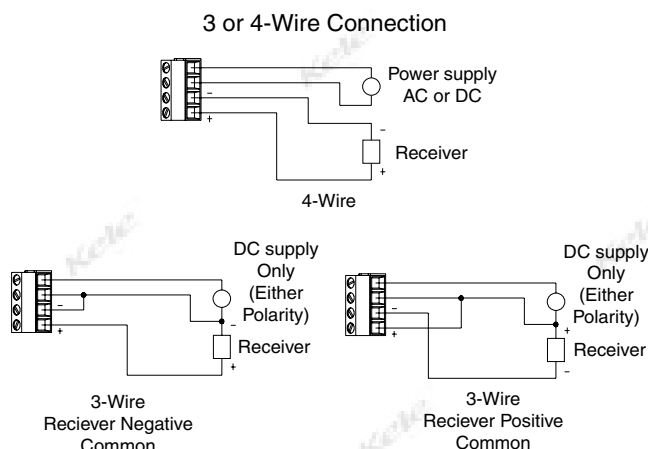
FEATURES

- Clean room fresh air supply
- HVAC air velocity measurements
- Fan supply and exhaust tracking
- Ensure proper lab hood exhaust flow rates

SPECIFICATIONS

Output Signal	4-20 mA, isolated 24V source, 3 or 4-wire connection
Output Filter	Selectable 0.5-15 sec.
Loop Resistance	600Ω max.
Current Consumption	300 mA max.
Cable Length	6.0 ft (1.8 m)
Accuracy	3% full scale process gas: 32° to 122°F (0° to 50°C); 4% full scale process gas: -40° to 32°F (-40° to 0°C) and 122° to 212°F (50° to 100°C)
Response Time	1.5 sec. to 95% of final value (output filter set to minimum)
Display	4-1/2 digit 1/2" red LED
Resolution	1 fpm, 0.01 mps (10 fpm @ 10,000 and 15,000 fpm ranges)
Electrical Connections	Screw Terminal
Mounting Orientation	Unit not position sensitive, probe must be aligned with airflow
Operating Temperature	Process: -40° to 212°F (-40° to 100°C); Ambient: 32° to 140°F (0° to 60°C)
Operating Humidity	non-condensing
Media Compatibility	Clean air and compatible, non-combustible gases
Operating Pressure	100 psi (690 kPa) max.
Power Requirements	12 to 35 VDC, 10 to 16 VAC; 1.5A rating required on supply due to initial power surge drawn by transmitter
Probe Length	12.0" (30.5 cm)
Probe Diameter	5/16" (0.79 cm)
Weight	0.9 lb (0.4 kg)
Warranty	1 year

WIRING



ORDERING INFORMATION

MODEL
641 RM-12-LED

DESCRIPTION

Air velocity transmitter with 6 ft cable and LED display

RELATED PRODUCTS

A-158

160 Series pitot tube mounting flange (required for duct mount)