VE500 Series Exhaust Flow Meters

J-TEC's VE500 Exhaust Flow Meter has been designed to operate over a wide dynamic range at temperatures up to 1000°F. The signal output is directly proportional to the volumetric flows and can be used to calculate mass flow. This exhaust meter provides the same rugged design as J-TEC's other gas and liquid flow meters. No moving parts, low pressure drop and low cost make this product ideal for all exhaust flow measurement applications.

SPECIFICATIONS

Measured: Exhaust

Flow rate measured: See table below

Operating temperature: -20° to 1000°F (-28° to 537°C)

Operating pressure: 2 PSIG (0.14 BARg)
Accuracy: +/- 2% full scale

Repeatability: +/- 1%

Input power: +24 to 28 VDC at 10 amps
Output: 0-5 VDC or frequency (3-wire)

Construction: Stainless steel wetted parts with MACOR transducer assembly

Ambient temperature: -20° to 150°F (-28° to 66°C)

Pressure drop: Maximum 5" H₂0

Response time: 300 ms for analog output, 10 ms for frequency

Air supply to cool transducers: 90-120 PSIG at 2 SCFM

Tube ends - 2" exhaust flowmeter (end to end length: 34"): DFA1911

Inlet: 2-1/2" Sch. 10 pipe O.D. 2.875" I.D. 2.635" Outlet: 2" Sch. 40 pipe O.D. 2.375" I.D. 2.067"

Tube ends – 3" exhaust flowmeter (end to end length: 34"): DFA1912

Inlet: 3-1/2" Sch. 10 pipe O.D. 4.000" I.D. 3.760" Outlet: 3" Sch. 40 pipe O.D. 3.500" I.D. 3.068"

FLOW RANGES For reference only. Consult factory for other line sizes								
Temp °F	2"		3"		2"		3"	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
-20	5	220	10	450	4	259	12	542
0	5	220	10	450	4	248	11	518
40	5	220	10	450	4	228	11	477
70	5	220	10	450	5	220	10	450
200	5	220	10	450	4	176	8	361
250	5	220	10	450	4	165	7	336
400	5	220	10	450	3	135	6	277
500	5	220	10	450	3	120	5	248
800	5	220	10	450	2	92	4	189
1000	5	220	10	450	2	80	4	163

