



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" H ₂ O
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	ACFM				SCFM			
	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