

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 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 (GAS) 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 5 amps (Linear supply recommended)
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:	100 milliseconds
Air supply to cool transducers:	90-120 PSIG at 2 SCFM

2" exhaust flow meter - 2.067" measuring section (end to end length: 38")

Tube ends: 3" marman flanges

3" exhaust flow meter - 3.068" measuring section (end to end length: 37")

Tube ends: 4" marman flanges

4" exhaust flow meter - 3.50" measuring section (end to end length: 37")

Tube ends: 4.5" marman flanges

FLOW RANGES												
For reference only												
Temp °F	ACFM						SCFM					
	2"		3"		4"		2"		3"		4"	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
-20	5	220	10	450	15	580	6	259	12	532	18	686
0	5	220	10	450	15	580	6	248	11	508	17	656
40	5	220	10	450	15	580	5	228	11	468	16	603
70	5	220	10	450	15	580	5	220	10	450	15	580
200	5	220	10	450	15	580	4	173	8	355	12	457
250	5	220	10	450	15	580	4	161	7	330	11	425
400	5	220	10	450	15	580	3	133	6	272	9	351
500	5	220	10	450	15	580	3	120	5	244	8	314
800	5	220	10	450	15	580	2	91	4	186	6	239
1000	5	220	10	450	15	580	2	78	4	160	5	206