

Characteristics

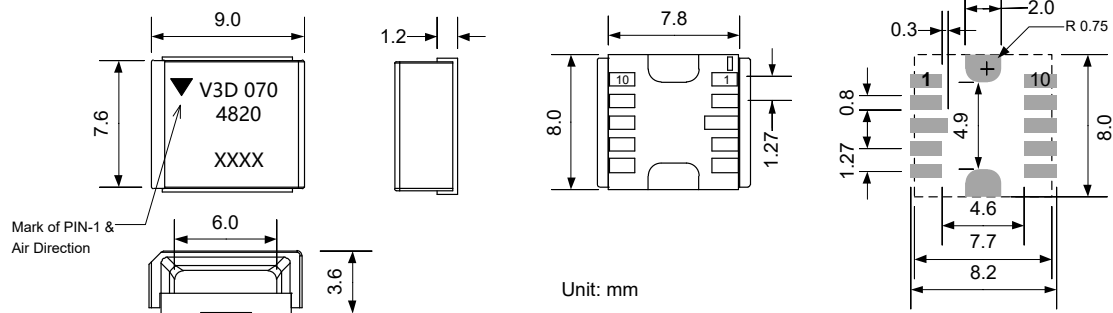
Test Conditions: 5V (analog), Ta=25°C. Relative Humidity: 40%<RH<60%

PRELIMINARY

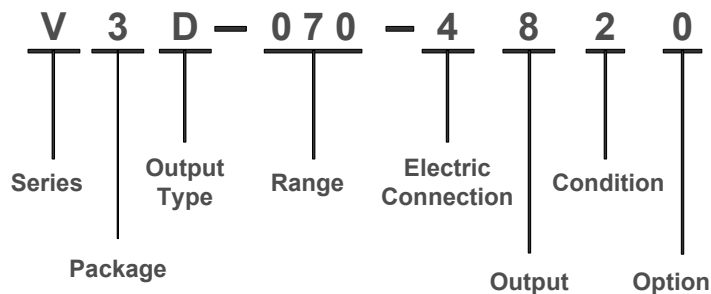
Parameters	Min	Typ	Max	Unit
Supply Voltage ¹	2.75	5	5.5	V
Supply Current		17	21	mA
Range of Flow Rate ²	0		7	m/s
Resolution		12		Bit
Output - Digital		409 to 3686		Counts
Accuracy		5% of reading + 0.1 m/s (digital)		
Relative Humidity ³	5		95	%
Response Time		5	15	ms
Temperature - Reference ⁴		25		°C
Temperature - Operating ⁴	- 5		+85	°C
Temperature - Storage	-40		105	°C
Wetted Materials	Silicon carbide, epoxy, PPE+PS, FR4			
Weight		4		g

Notes:

1. Other supply is also available upon request.
2. 30 sccm to 4000 sccm; Mass flow emulation.
3. Non-condensing
4. Lower operating temperature is possible with individual evaluation. Thermal error is 0.2%FS/100 °C which is designed parameter.
5. The factory setting for I2C slave address is 0x50.



Ordering Information



V	Air Velocity
3	SMD
D	Digital
070	7 m/sec
4	Soldering pads
8	IIC
2	20 deg C
0	Standard

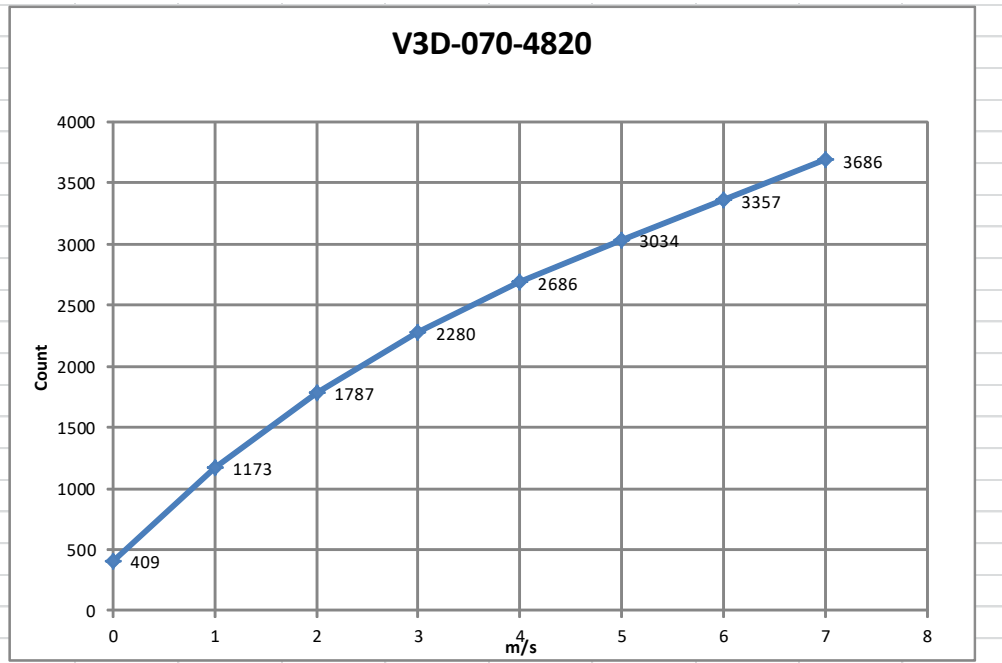
Pinout Assignment

Pad	Description
1	V _{OREG}
2	V _{DD}
3	V _{SS}
4	N.C.
5	N.C.
6	SDA
7	SCL
8	AN1
9	AN0
10	V _{CM}

01-21 R1

Typical characteristics of output – V3D 070 4820

m/s	count
0	409
1	1173
2	1787
3	2280
4	2686
5	3034
6	3357
7	3686



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