

Characteristics

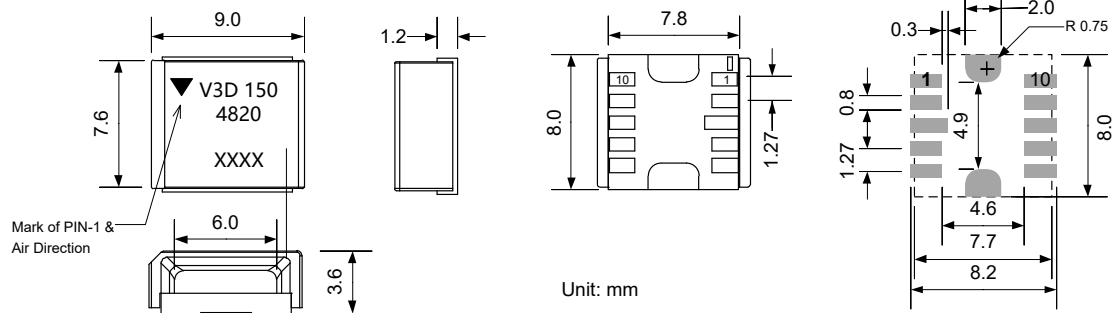
Test Conditions: 5V (analog), Ta=25°C. Relative Humidity: 40%<RH<60%

PRELIMINARY

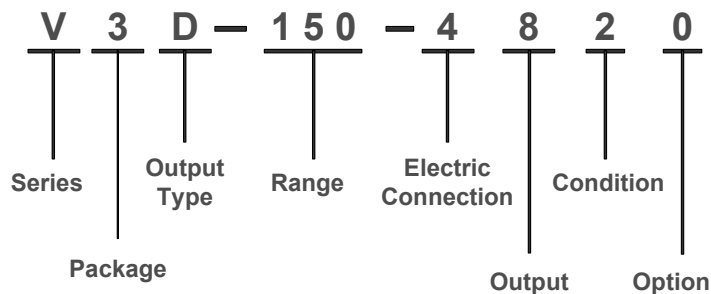
Parameters	Min	Typ	Max	Unit
Supply Voltage ¹	2.75	5	5.5	V
Supply Current		17	21	mA
Range of Flow Rate ²	0		15	m/s
Resolution		12		Bit
Output - Digital		409 to 3686		Counts
Accuracy		5% of reading + 0.1 m/s (digital)		
Relative Humidity ³	5		95	%
Response Time		5	15	ms
Temperature - Reference ⁴		25		°C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

Notes:

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



Ordering Information



V	Air Velocity
3	SMD
D	Digital
150	15 m/sec
4	Soldering pads
8	IIC
2	20 deg C
0	Standard

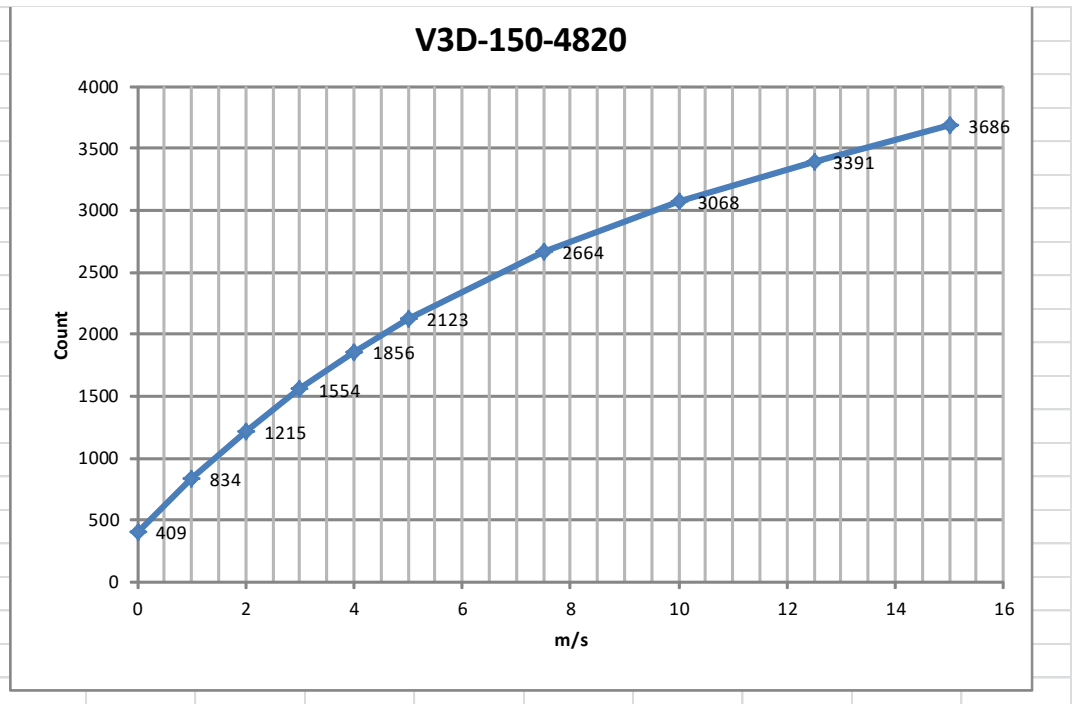
Pinout Assignment

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 150 4820

m/s	count
0	409
1	834
2	1215
3	1554
4	1856
5	2123
7.5	2664
10	3068
12.5	3391
15	3686



Headquarter Switzerland:
Angst+Pfister Sensors and Power AG

Thurgauerstrasse 66
CH-8050 Zurich
Phone +41 44 877 35 00
sensorsandpower@angst-pfister.com

Office Germany:
Angst+Pfister Sensors and Power
Deutschland GmbH
Edisonstraße 16
D-85716 Unterschleißheim
Phone +49 89 374 288 87 0
sensorsandpower.de@angst-pfister.com



We are here for you. Addresses and Contacts.

Sales Germany & Austria

Geometrical sensors
Other products

Kurt Stritzelberger
Phone +49 89 374 288 87 22
kurt.stritzelberger@angst-pfister.com

Pressure sensors
Other products

Gerhard Vetter
Phone +49 89 374 288 87 26
gerhard.vetter@angst-pfister.com

Gas sensors and modules

Peter Felder
Phone +41 44 877 35 05
peter.felder@angst-pfister.com

Sales Switzerland & Liechtenstein

Postcode 3000 – 9999

Basil Frei
Phone +41 44 877 35 18
basil.frei@angst-pfister.com

Postcode 1000 – 2999

Christian Mohrenstecher
Phone +41 76 444 57 93
christian.mohrenstecher@angst-pfister.com

Sales International Key Accounts

Peter Felder
Phone +41 44 877 35 05
peter.felder@angst-pfister.com

Sales Other Countries / Product Management

Pressure Sensors
Load Cells

Philipp Kistler
Phone +41 44 877 35 03
philipp.kistler@angst-pfister.com

Gas sensors
Gas sensor modules

Dr. Thomas Clausen
Phone +49 89 374 288 87 24
thomas.clausen@angst-pfister.com

Flow / Level / Medical products

Dr. Adriano Pittarelli
Phone +49 89 374 288 87 67
adriano.pittarelli@angst-pfister.com

Power supplies

Sebastiano Leggio
Phone +41 44 877 35 06
sebastiano.leggio@angst-pfister.com

Linear position sensors
Angle sensors

Eric Letsch
Phone +41 44 877 35 14
eric.letsch@angst-pfister.com

Accelerometers
Sensor elements

Christoph Kleye
Phone +49 89 374 288 87 61
christoph.kleye@angst-pfister.com

Drive technology
CH Postcode 5000 – 9999 / DE

Roman Homa
Phone +41 76 444 00 86
roman.homa@angst-pfister.com

Drive technology
CH Postcode 1000 – 4999 / AT / IT / FR

Christian Mohrenstecher
Phone +41 76 444 57 93
christian.mohrenstecher@angst-pfister.com

Harald Thomas
Phone +49 89 374 288 87 23
harald.thomas@angst-pfister.com