	SDP8xx with Digital Output x = 0, 1	SDP3x x = 1, 2, 3	SDP6x0 x = 0, 1	SDP8x6 with Analog Output x = 0, 1	SDP36 SDP37
Status	**Recommended for New Designs**		**Not Recommended for New Designs**	**Recommended for New Designs**	
Pneumatic Connection	SDP80x: Manifold SDP81x: Tube	Manifold	SDP60x: Manifold SDP61x: Tube	SDP806: Manifold SDP816: Tube	Manifold
Pressure range (Pa)	SDP8xx-500Pa: ±500 SDP8xx-125Pa: ±125	SDP31: ±500 SDP32: ±125 SDP33: ±1500	SDP6x0-500Pa: ±500 SDP601, 611: ±500 SDP6xx-125Pa: ±125 SDP6x0-25Pa: ±25 SDP5xx: 0 to 500	SDP8x6-500Pa OCS=L, Linear: -50 to 500 OCS=H, Square Root ±500 SDP8x6-125Pa OCS=L, Linear: -12.5 to 125 OCS=H, Square Root ±125	SDP36 OCS=L, Linear: -50 to 500, OCS=H, Square Root ±500 SDP37 OCS=L, Linear: -12.5 to 125 OCS=H, Square Root ±125
Allowable overpressure (bar)	1	1	-	1	1
Rated burst pressure	5	3	-	5	3
Accuracy (%)	3	3 SDP33: 3 for ±500Pa, 6 for ±1500Pa	SDP6xx: 3 SDP5xx: 4.5	3	3
Flow step response time τ63% (ms)	<3		-	<5	BWS=H, Slow: <9 BWS=L, Fast: <3
Resolution (bit)	16		12 (adjustable from 9 to 16)	16	16
Calibrated for	Air, N_2				
Gas compatibility	Air, inert gases				
Temperature compensation range (°C)	-20 to 85	-40 to 85	-20 to 80	-20 to 85	-40 to 85
Interface	I^2C, up to 1MHz		I^2C, up to 400kHz	Voltage, 10 to 90% Vdd	Voltage, 10 to 90% Vdd
I2C Address	SDP8x0: 0x25 SDP8x1: 0x26	0x21, ADDR=GND 0x22, ADDR-1.2K resistor-GND 0x22, ADDR-2.7K resistor-GND	0x40	-	-
CRC checksum for measured values	CRC8		CRC8	-	-
Measurement mode	Continuous Continuous Mode and 'Average till Read' Triggered		Triggered	Continuous	
Method to determine measured data availability	Polling – continuous mode Polling, clock stretching – triggered mode	Polling – continuous mode Polling, clock stretching – triggered mode IRQn pin	Polling Sensor pulls down the SCL line while measuring	-	-
Output	Differential pressure				
Temperature compensation for	Mass flow Differential pressure		SDP6x0: differential pressure SDP5x0: differential pressure SDP6x1: mass flow SDP5x1: mass flow	Mass flow	TCS=L, mass flow TCS=H, differential pressure
Measurement duration (ms)	0.5 – continuous 45 - triggerd		4.6 at 12bit resolution 69.3 at 16bit resolution	-	-
Power supply Vdd (V)	2.7 to 5.5	2.7 to 5.5	3 to 3.6	2.7 to 5.5	2.7 to 5.5
Supply current, measuring (mA)	3.8	3.8	<6	3.8	3.8