

Parameter	SPD31	SDP600
Size	8x5x5mm	29x18x16mm
SMD	Yes	No
Reflow solder process compatibility	Yes	No
Measurement range	-500 to +500Pa Sensor versions with other pressure ranges will be available later in 2016	±25Pa, ±125Pa, ±500Pa and 0 to 500Pa Sensor for each pressure range.
Allowable overpressure	0,25 bar	1 bar
Rated burst pressure	1 bar	5 bar
Weight	1,5 g	6 g
Resolution	16 bit	12 bit, user selectable 9 to 16 bit
Flow step response time	< 3ms/16 bit	typ. 4,6ms/12 bit
Calibrated temperature range	-40 to +85 °C	-20 to +80 °C
Operating temperature range	-40 to +85 °C	-20 to +80 °C
Time to first reliable measurement	Max. 25ms	Typ. 50ms
I ² C SCL frequency	Typ. 400kHz, max. 1000kHz	Typ. 100kHz, max. 400kHz
I ² C address	0x21, 0x22, 0x23, pin selectable	0x64
Continuous measuring mode	Yes update rate 1000Hz, (expected upgrade to 2000Hz later in 2016)	No
Averaging	Yes	No
Triggered mode	Yes	Yes
Monitoring whether or not the sensor is ready with its measurement	Clock stretching, polling, IRQn pin	Clock stretching
Differential pressure and for mass flow measurement + temperature compensation for both modes	Yes	No SDP600/610, 620/630 606/616 – differential pressure SDP601/611, 501/511, 621/631 – mass flow
MOQ	1500	80