

SN1120

Differential Pressure Sensor

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The differential pressure sensor uses a high-quality mass flow module to convert the movement of clean air and non-aggressive gases into a 0-10VDC output signal or into a digital format available via a 2-wire I2C interface. The differential pressure sensor also features a wide power supply range with reverse polarity protection, no offset and no zero-point drift, hysteresis free, full calibration and temperature compensation (-20°C to +80°C) for air and N₂.

Part Number	Supply Voltage (nominal) VDC	Ambient Temperature °C	Max Current mA	Width mm	Length mm	Height mm	Weight g	Length of Cable (nominal) m	Internal Diameter of Compatible Air Hose mm
SN1120-A050	9.5V - 57V	-20 to +80	10	43.2	90.2	69.4	86	1	3.18 - 3.8
SN1120-A100	9.5V - 57V	-20 to +80	10	43.2	90.2	69.4	86	1	3.18 - 3.8
SN1120-A200	9.5V - 57V	-20 to +80	10	43.2	90.2	69.4	86	1	3.18 - 3.8
SN1120-A500	9.5V - 57V	-20 to +80	10	43.2	90.2	69.4	86	1	3.18 - 3.8
SN1120-D500	4.5V - 57V	-20 to +80	10	43.2	90.2	69.4	86	1	3.18 - 3.8

The 0-10VDC signal output of the analogue sensors is proportional to the pressure difference with respect to the sensor's pressure range. For example, a differential pressure of 100Pa measured on a 0-500Pa sensor gives a 2V output, but the same differential pressure measured on a 0-200Pa sensor gives a 5V output.

Part Number	SN1120-A050	SN1120-A100	SN1120-A200	SN1120-A500	SN1120-D500
Pressure Range	0-50Pa	0-100Pa	0-200Pa	0-500Pa	0-500Pa
Sensor Type	Analogue	Analogue	Analogue	Analogue	Digital

***Maximum Load:**
 100kΩ (100uA) when supply voltage < 12Vdc
 5kΩ (2mA) when supply voltage >= 12Vdc

