

NPS300x: High Precision Pressure Sensor Family

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Overview & Features

Overview

Preproduction

The NPS300x is a family of compact, differential high precision pressure sensor with an I²C and SPI digital interface. It covers operating range from -500 Pa to 500 Pa up to 0 to 5 kPa with a very high sensitivity of 0.125 Pa/LSB and a 3 Pa accuracy. Due to its low power with current consumption down to 3.15 µA in measurement mode and interrupt capabilities, it is a great fit for battery powered applications.

Standard version (NPS300x)

The standard version is suitable for medical applications such as a inhaler / a clinical breath test

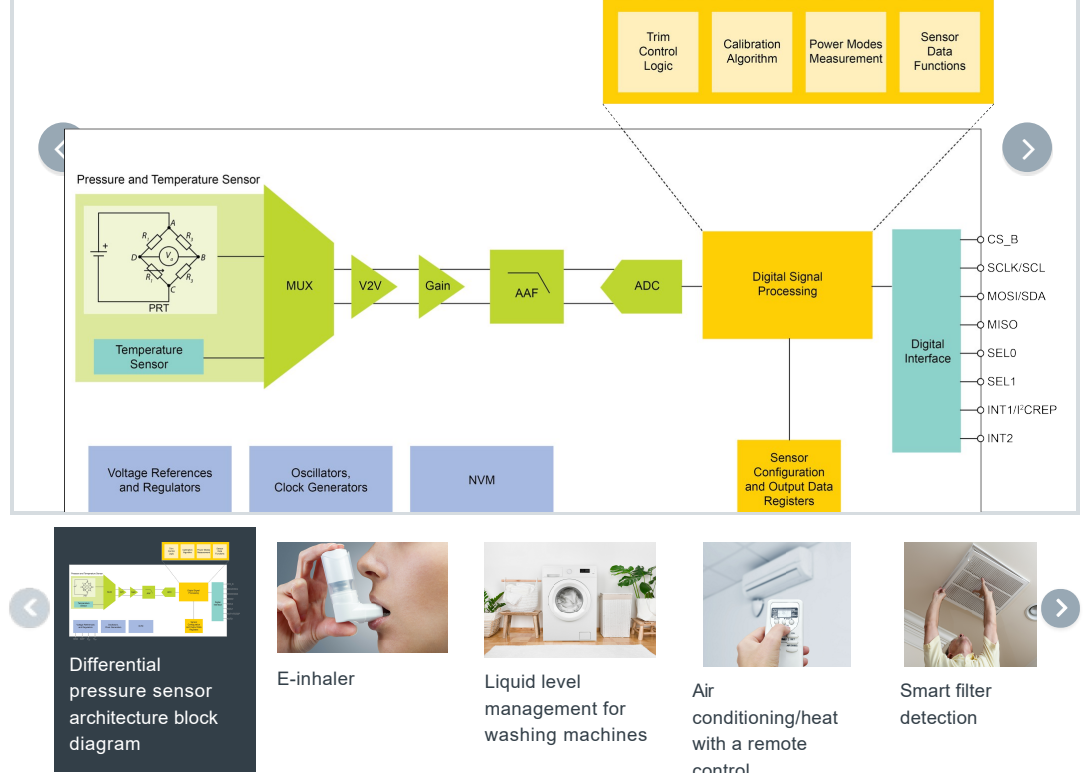
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Features

- NPS3000VVT1 -500 Pa to 500 Pa
- NPS0300EVT1 -500 Pa to 500 Pa (enhanced accuracy)
- NPS3001DVT1 0 to 1 kPa
- NPS3001EVT1 0 to 1 kPa (enhanced accuracy)
- NPS3002VVT1 -2 kPa to 2 kPa
- NPS3005DVT1 0 to 5 kPa
- Operating temperature from -20 °C to +60 °C

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Differential pressure sensor architecture block diagram



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